

Faculty of Engineering, Mathematics and Science

I GENERAL FACULTY REGULATIONS¹

Degrees

1 The faculty provides courses leading to the following degrees:

(a) COMPUTER SCIENCE AND STATISTICS

Bachelor in Arts (Moderatorships in Computer Science and Business, in Computer Science and Language, and in Management Science and Information Systems Studies (B.A. with honors)), Bachelor in Arts (Moderatorship in Computer Science) (B.A. with honors) and Master in Computer Science (M.C.S.), Bachelor in Science (Information Systems) (B.Sc. (Syst. Inf.)) (evening course), see II below.

(b) ENGINEERING SCIENCE

Bachelor in Arts (B.A.), see section III below, Bachelor in Engineering (B.A.I.) and Master in Engineering (Studies) (M.A.I. (St.)), Bachelor in Science (Engineering) (B.Sc. (Ing.)) and Master in Engineering (Studies) (M.A.I. (St.)) in Engineering with Management, see III below.

(c) MATHEMATICS

Bachelor in Arts (Moderatorships in Mathematics, and in Theoretical Physics (B.A. with honors)), Bachelor in Arts (Ordinary B.A. degree), see IV below.

(d) SCIENCE

Bachelor in Arts (Moderatorships in Science (in one of the following subjects: biochemistry, botany, chemistry, chemistry with molecular modelling, environmental sciences, genetics, geography, geology, geoscience, human genetics, immunology, medicinal chemistry, microbiology, molecular medicine, nanoscience, neuroscience, physics, physics and astrophysics, physiology, plant sciences, zoology), in Earth Sciences, in Human Genetics, in Chemistry with Molecular Modelling, in Medicinal Chemistry, and in Nanoscience, Physics and Chemistry of Advanced Materials.

Diploma

2 The following undergraduate diploma course is available: information systems, see II below.

II COURSES IN COMPUTER SCIENCE AND STATISTICS

MODERATORSHIP IN COMPUTER SCIENCE AND BUSINESS

Introduction/overview

1 The duration of the course is four years. The course aims to provide graduates with the knowledge and skills necessary for the technical field of computer science and the business management skills to understand markets and to manage business operations within organisations. The course will prepare students for challenging careers in either (or both) computer science and business.

Regulations

2 For assessment and academic progress regulations, please refer to GENERAL REGULATIONS AND INFORMATION.

3 The pass mark in each year is 40 per cent.

¹These regulations should be read in conjunction with GENERAL REGULATIONS AND INFORMATION.

4 In addition to the regulations set out in GENERAL REGULATIONS AND INFORMATION, students must engage fully in each module for which they are registered in the School of Computer Science and Statistics, attending all scheduled classes and completing all continuous assessment exercises. Unless otherwise specified in the course handbook or a module descriptor, students who are absent from one third or more of the scheduled classes or who fail to submit one third or more of the continuous assessment exercises (by mark weighting) in any module may be reported as 'non-satisfactory'.

Students entering before 2019-20

5 The B.A. (Moderatorship) degree result is calculated as a credit-weighted average of the overall results achieved in the Senior Sophister year.

6 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

7 Bachelor in Arts (Moderatorship).

Students entering from 2019-20 onwards

Moderatorship, Part I

8 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

9 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Award

10 Depending upon student choices made within their programme of study it is possible to confer with a Bachelor in Arts (Moderatorship) award in one of the following categories:

Joint honors in Computer Science and Business

Major in Computer Science with minor in Business

Major in Business with minor in Computer Science

MODERATORSHIP IN COMPUTER SCIENCE AND MASTER IN COMPUTER SCIENCE (M.C.S.)

Introduction/overview

11 The programme will normally last for four or five years and will lead to the degrees of B.A. (Moderatorship) (after four years) and Master in Computer Science (after five years).

12 The programme is concerned with the study of the theoretical underpinnings and practical applications of computers. The first two years provide an introduction to fundamentals including mathematics, programming, computer systems, digital logic, telecommunications, information management and the relationship between computers and society. Later years provide specialisation in a broad range of topics through core and elective modules.

13 Students participating in the Master in Computer Science course will be required to engage in a one semester internship in industry or in a university research laboratory in fourth year. In the fifth year students will undertake a significant project with a substantial element of independent research leading to a dissertation.

14 Students on the four-year programme leading to the B.A. (Moderatorship) degree complete a substantial capstone project in fourth year.

Regulations

15 For assessment and academic progress regulations, please refer to GENERAL REGULATIONS AND INFORMATION.

16 The pass mark in the first, second, third and fourth years of this programme is 40 per cent. The pass mark in fifth year (the master's year) of this programme is 50 per cent.

17 Students must achieve an average of at least 60 per cent at the first attempt of their third year examinations to be eligible to participate in the master's internship in fourth year. Students who have passed the third year but who do not choose to proceed to the fourth year of the five-year master's programme, or are ineligible to participate in the master's internship, may instead proceed to the final year of the four-year programme, leading to the B.A. (Moderatorship) degree.

18 Students who pass the fourth year of the five year master's course, achieve an average of at least 60 per cent at the first attempt of their fourth year examinations (the taught component) and 60 per cent overall, and satisfy the requirements for the award of Moderatorship in Computer Science may progress to the fifth year or exit the course with a B.A. (Moderatorship) degree. Students who fail the fourth year of the master's course may repeat the fourth year as provided by the General Regulations but may only do so to exit the course with the B.A. (Moderatorship) degree, taking the modules required for students intending to exit after four years in place of the internship.

19 In addition to the regulations set out in GENERAL REGULATIONS AND INFORMATION, students must engage fully in each module for which they are registered in the School of Computer Science and Statistics, attending all scheduled classes and completing all continuous assessment exercises. Unless otherwise specified in the course handbook or a module descriptor, students who are absent from one third or more of the scheduled classes or who fail to submit one third or more of the continuous assessment exercises (by mark weighting) in any module may be reported as 'non-satisfactory'.

Moderatorship degree

20 Students who have passed fourth year may have the B.A. (Moderatorship) degree conferred if they do not choose, or are not allowed, to proceed to the fifth year of the course. Students who are eligible and choose to proceed to the fifth year of the programme will be awarded a classified B.A. (Moderatorship) degree on completion of fifth year.

Students entering before 2019-20

Moderatorship, Part I

21 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 20 per cent toward the final award unless a student spends one semester or more abroad in their Junior Sophister year in which case the Moderatorship award will be based only on the Senior Sophister results.

Moderatorship, Part II

22 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 80 per cent toward the final award unless a student spends one semester or more abroad in their Junior Sophister year in which case the Moderatorship award will be based only on the Senior Sophister results.

23 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

24 Bachelor in Arts (Moderatorship).

Students entering from 2019-20 onwards

Moderatorship, Part I

25 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

26 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Award

27 Bachelor in Arts (Moderatorship).

Master in Computer Science degree

28 Successful candidates at the fifth year examinations will be awarded the degree of Master in Computer Science or Master in Computer Science with distinction. A distinction shall require at least 70 per cent in the dissertation and at least 70 per cent in the final credit-weighted average mark.

MODERATORSHIP IN COMPUTER SCIENCE AND LANGUAGE

29 For details see FACULTY OF ARTS, HUMANITIES AND SOCIAL SCIENCES.

MODERATORSHIP IN MANAGEMENT SCIENCE AND INFORMATION SYSTEMS STUDIES

Introduction/overview

30 This is a four year programme and will lead to the degree of B.A. (Moderatorship) in Management Science and Information Systems Studies.

31 This course is concerned with the application of computers, mathematical techniques and information systems to problem-solving, decision-making and planning in the management of business and industry. Its aim is to provide a practical training founded on a solid theoretical base, which will enable its graduates to be immediately effective while remaining adaptable to new developments in business and information technology.

Regulations

32 Please refer to GENERAL REGULATIONS AND INFORMATION.

33 The pass mark in each year of the course is 40 per cent.

34 In addition to the regulations set out in GENERAL REGULATIONS AND INFORMATION, students must engage fully in each module for which they are registered in the School of Computer Science and Statistics, attending all scheduled classes and completing all continuous assessment exercises. Unless otherwise specified in the course handbook or a module descriptor, students who are absent from one third or more of the scheduled classes or who fail to submit one third or more of the continuous assessment exercises (by mark weighting) in any module may be reported as 'non-satisfactory'.

Students entering before 2019-20

Moderatorship, Part I

35 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 35 per cent toward the final award.

Moderatorship, Part II

36 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 65 per cent toward the final award.

37 For candidates who spend one or more semesters of their Junior Sophister year abroad, their B.A. (Moderatorship) degree result will be determined by their Senior Sophister year results only.

38 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

39 Bachelor in Arts (Moderatorship).

Students entering from 2019-20 onwards

Moderatorship, Part I

40 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

41 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Award

42 Bachelor in Arts (Moderatorship).

DIPLOMA IN INFORMATION SYSTEMS (EVENING COURSE)

43 There will be no admission to the first year of this programme in 2019-20.

B.Sc. DEGREE IN INFORMATION SYSTEMS (EVENING COURSE)

44 There will be no admission into this programme in 2019-20.

Progression

45 The pass mark in each year of this programme is 40 per cent.

Degree award

46 Successful candidates in year 4 are placed in the following classes: first class honors, second class honors (with two divisions, first and second), and third class honors. The degree result is based entirely on a credit-weighted average of marks attained in year 4 modules.

III COURSES IN ENGINEERING SCIENCE

**DEGREES OF BACHELOR IN ENGINEERING AND MASTER IN ENGINEERING (STUDIES)
(B.A., B.A.I.) or (B.A., M.A.I. (St.))**

Introduction/overview

1 Students complete a four-year course and may elect to complete an additional year of study leading to a M.A.I. (St.) degree. There is provision for an abridgement of the course to three years.

2 During the first two years a programme of basic modules in engineering is provided. Following completion of the first two years of the course, students elect to study specialised programmes in one of the following strands:

- civil, structural and environmental engineering
- mechanical and manufacturing engineering
- biomedical engineering
- electronic engineering
- computer engineering
- electronic/computer engineering (combined programme)

Following completion of the fourth year of the engineering degree course, eligible students may elect to complete one further year of study in their chosen strand leading to a M.A.I. (St.) degree.

3 While every effort is made to allow students to study the strand/specialism they choose, the Engineering School Curriculum Committee reserves the right to allocate the available places. In some departments the number of places for students of any one year may be limited. Timetable constraints may also reduce the number of module options available.

4 Outbound Trinity College students: Students who successfully complete the third year of their engineering course in Trinity College Dublin and meet the selection criteria may enrol on the 'double diploma' programme run jointly with the Institut National des Sciences Appliquées (I.N.S.A.) de Lyon. Selected candidates are admitted to the third year of the engineering course in I.N.S.A. de Lyon and take modules amounting to 60 credits from the third and fourth year curricula offered by the department corresponding to their chosen engineering specialty. This academic year is recognised as being equivalent to the fourth/B.A.I. year and, on its successful completion, students return to Trinity College Dublin to satisfactorily complete the fifth year of the M.A.I. degree course. Such students are eligible to be awarded with the B.A. and M.A.I. (St.) degrees. Subsequent to this students proceed directly to the fifth year of the engineering course in I.N.S.A. de Lyon returning to the department of their option to take a set of approved modules amounting to 60 credits. Upon successful completion of this additional year, students are eligible to be conferred with the Diplôme d'Ingénieur de l'I.N.S.A. de Lyon.

Inbound I.N.S.A. de Lyon students: A similar arrangement exists for engineering students of the I.N.S.A. de Lyon whereby suitably qualified candidates are admitted to the fourth year of the Trinity College Dublin engineering course and complete two years here taking modules from the engineering department corresponding to their chosen option in I.N.S.A. de Lyon. Following successful completion of these two years in Trinity College Dublin students are eligible to be awarded the M.A.I. degree. Such students return to the department of their option in I.N.S.A. de Lyon to satisfactorily complete the fifth year of their home course and to receive the Diplôme d'Ingénieur de l'I.N.S.A. de Lyon.

5 A number of additional options to study abroad with approved partner institutions are available as an integrated part of the teaching programme for students following the M.A.I. course. These options may be taken in the fourth year and include Erasmus, UNITECH (as a paid industrial partnership) and CLUSTER. Full details of available options are available from the Engineering School Office and on the [website](#).

6 Students are encouraged to gain relevant industrial experience during the vacation periods. Formal industrial partnerships/internships with approved industry partners are also available as an integrated part of the teaching programme for students following the M.A.I. course. This option may be taken in the fourth year.

Regulations

7 As per College's GENERAL REGULATIONS AND INFORMATION, with the following additions for the Engineering and Engineering with Management courses:

(a) Students must achieve a minimum of 60 per cent at the first attempt at the Junior Sophister assessment in order to be eligible to take the internship or study abroad in the Senior Sophister year.

(b) For 2018-19 entrants onwards, Senior Sophister students who are exiting with a B.A.I./B.Sc. degree must complete a capstone.

(c) Students who have failed at the first attempt of the Senior Sophister assessment may present at the reassessment session or, if they fail at the reassessment session, repeat the year in order to be eligible for the B.A.I./B.Sc.

(d) To be eligible to proceed to the fifth year of the M.A.I. programme, students in the Senior Sophister year in 2019-20 must achieve a minimum overall mark of 55 per cent for the combined

Junior Sophister and Senior Sophister years (on a 20:80² basis) at the annual assessment session of the B.A.I./B.Sc. degree year.

(e) To be eligible to proceed to the fifth year of the M.A.I. programme, students in the Senior Sophister year from 2020-21 onwards must achieve a minimum overall mark of 60 per cent for the combined Junior Sophister and Senior Sophister years (on a 20:80² basis) at the annual assessment session of the B.A.I./B.Sc. degree year.

(f) Successful candidates at the M.A.I. examinations are awarded the degree of M.A.I. (St.) or of M.A.I. (St.) with distinction. Except by special recommendation of the court of examiners, the M.A.I. (St.) degree is awarded on the results of a student's end-of-semester fifth year M.A.I. examinations only. A distinction shall require at least 70 per cent in both the examinations and the dissertation and at least 70 per cent in the final credit-weighted average mark.

(g) Students on the engineering course admitted in 2016-17 and thereafter who have obtained credit for all five years of the course are entitled to the degrees of ordinary B.A. and M.A.I. (St.).

Students entering before 2018-19

Moderatorship, Part I

8 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 20 per cent toward the final award.

Moderatorship, Part II

9 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 80 per cent toward the final award.

10 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Students entering from 2018-19 onwards

Moderatorship, Part I

11 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

12 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Conferring of degrees

13 Students who exit the course having obtained credit for years one to four are entitled to the degrees of ordinary B.A. and B.A.I. Students admitted in 2016-17 onwards and who have obtained credit for all five years of the course are entitled to the degrees of ordinary B.A. and M.A.I. (St.). Students admitted prior to 2016-17 who have obtained credit for all five years of the course are entitled to be conferred with the degrees of ordinary B.A., B.A.I. and M.A.I. (St.). The degrees in each instance must be conferred at the same Commencements.

DEGREES IN ENGINEERING WITH MANAGEMENT (B.Sc. (Ing.) or M.A.I. (St.))

Introduction/overview

14 Students complete a four-year course leading to a B.Sc. (Ing.) degree, and may elect to complete an additional year of study leading to a M.A.I. (St.) degree. There is provision for an abridgement of the course to three years.

²For 2018-19 entrants onwards the combined mark from the Junior Sophister and Senior Sophister years will be calculated on a 30:70 basis.

15 Following completion of the fourth year of the engineering with management degree course, eligible students may elect to complete one further year of study leading to a M.A.I. (St.) degree.

16 Outbound Trinity College students: Students who successfully complete the third year of their engineering with management course in Trinity College Dublin and meet the selection criteria may enrol on the 'double diploma' programme run jointly with the Institut National des Sciences Appliquées (I.N.S.A.) de Lyon. Selected candidates are admitted to the third year of the engineering course in I.N.S.A. de Lyon and take modules amounting to 60 credits from relevant third and fourth year curricula. This academic year is recognised as being equivalent to the fourth/B.Sc. (Ing.) year and, on its successful completion, students return to Trinity College Dublin to satisfactorily complete the fifth year of the M.A.I. degree course. Such students are eligible to be awarded with the B.Sc. (Ing.) and M.A.I. (St.) degrees. Subsequent to this students proceed directly to the fifth year of the engineering course in I.N.S.A. de Lyon returning to the department of their option to take a set of approved modules amounting to 60 credits. Upon successful completion of this additional year, students are eligible to be conferred with the Diplôme d'Ingénieur de l'I.N.S.A. de Lyon.

17 Inbound I.N.S.A. de Lyon students: A similar arrangement exists for engineering students of the I.N.S.A. de Lyon whereby suitably qualified candidates are admitted to the fourth year of the Trinity College Dublin engineering course and complete two years here taking modules from the engineering with management course. Following successful completion of these two years in Trinity College Dublin students are eligible to be awarded the M.A.I. degree. Such students return to the department of their option in I.N.S.A. de Lyon to satisfactorily complete the fifth year of their home course and to receive the Diplôme d'Ingénieur de l'I.N.S.A. de Lyon.

18 A number of additional options to study abroad with approved partner institutions are available as an integrated part of the teaching programme for students following the M.A.I. course. These options may be taken in the fourth year and include Erasmus, UNITECH (as a paid industrial partnership) and CLUSTER. Full details of available options are available from the Course Director and the website.

19 Students are encouraged to gain relevant industrial experience during vacation periods. Formal project internships with approved industry partners may also be available as an integrated part of the teaching programme for students following the M.A.I. course. This option may be taken in the fourth year.

Regulations

20 As §7 above.

21 Successful candidates at the M.A.I. examinations are awarded the degree of M.A.I. (St.) or of M.A.I. (St.) with distinction. Except by special recommendation of the court of examiners, the M.A.I. (St.) degree is awarded on the results of a student's end-of-semester fifth year M.A.I. examinations only. A distinction shall require at least 70 per cent in both the examinations and the dissertation and at least 70 per cent in the final credit-weighted average mark.

Students entering before 2018-19

Moderatorship, Part I

22 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 20 per cent toward the final award.

Moderatorship, Part II

23 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 80 per cent toward the final award.

24 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Students entering from 2018-19 onwards

Moderatorship, Part I

25 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

26 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Conferring of degrees

27 Students who have obtained credit for years one to four are entitled to the degree of B.Sc. (Ing.). Students who have obtained credit for the fifth year are additionally entitled to the degree of M.A.I. (St.). All degrees must be conferred at the same Commencements.

INTERNATIONAL ENGINEERING PROGRAMME (IN PARTNERSHIP WITH THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY)

28 Students admitted to the International Engineering Programme (IEP) will have successfully completed two years undergraduate study in Civil, Mechanical, Electronic and Electrical, Computer Engineering, or Electronic and Computer Engineering disciplines at the Thapar Institute of Engineering and Technology (TIET). Students follow the Junior Sophister and Senior Sophister degree years as prescribed in the School of Engineering undergraduate handbook. Progression rules for students in the Sophister years of the degree programme are the same as for students who enter the programme via the TR032 entry stream. On passing the Junior and Senior Sophister years, students will receive a B.A.I. in Engineering. Upon successful completion of this four year course of study, students may be eligible to pursue the fifth year integrated pathway and receive an M.A.I. degree, provided they meet the strict entry eligibility requirements.

Admission

29 Students enrolled in the engineering degree course at TIET who have successfully completed the first two years of study and satisfied other requirements are eligible to apply for admission. The application procedure and all entry requirements stipulated by the articulation agreement between TIET and Trinity College Dublin are described in the School of Engineering undergraduate handbook and on its website.

PARTNERSHIP WITH UNIVERSITY OF MICHIGAN-SHANGHAI JIAO TONG UNIVERSITY JOINT INSTITUTE (UM-SJTU JOINT INSTITUTE)

30 UM-SJTU Joint Institute students who have successfully completed three years in UM-SJTU Joint Institute, have completed specified pre-requisites, and have secured a CGPA of at least 3.3 or equivalent over three years, and have an IELTS score of at least 6.5, with no individual band of less than 6.0, or TOEFL IBT scores: 88 internet-based, 570 paper-based, 230 computer-based or equivalent, are eligible for consideration for advanced entry into the Senior Sophister year of the mechanical and manufacturing or electronic/computer engineering streams.

Students follow the Senior Sophister and M.A.I. degree years as prescribed in the School of Engineering undergraduate handbook, returning to UM-SJTU Joint Institute for a semester in the summer preceeding the M.A.I. The M.A.I. progression rules for UM-SJTU Joint Institute students are the same as for students who enter the programme via the TR032 entry stream.

On successful completion of the Senior Sophister and M.A.I. years, the student will be awarded the M.A.I. (St.). Students will also be awarded the B.Sc. in Mechanical Engineering or the B.Sc. in Electrical and Computer Engineering, as appropriate, provided they successfully complete all requirements of the UM-SJTU Joint Institute programme (the B.Sc. award is solely the responsibility of UM-SJTU Joint Institute).

Admission

31 Students who have successfully completed three years in UM-SJTU Joint Institute and have satisfied other requirements are eligible to apply for admission. The application procedure and all entry requirements stipulated by the articulation agreement between UM-SJTU Joint Institute and Trinity College Dublin are described in the School of Engineering undergraduate handbook and on its website.

IV SCHOOL OF MATHEMATICS

1 The School of Mathematics offers a degree course in mathematics. This programme consists of lectures and tutorials in mathematics and its applications.

2 The School of Mathematics in conjunction with the [School of Physics](#) offers a degree course in theoretical physics. This is an integrated programme of study consisting of lectures and tutorials in mathematics and physics together with experimental work in physics.

3 For students entering prior to 2019-20, mathematics may also be studied as a component of a two-subject moderatorship course in combination with another subject.

4 For students entering from 2019-20, mathematics may also be studied as a component of the Trinity joint honors programme.

Rowe Fund Library

5 Members of the Dublin University Mathematical Society have the use of a mathematical library in the society's rooms in addition to the College library.

MODERATORSHIP IN MATHEMATICS

Introduction/overview

6 The moderatorship in mathematics offers instruction in pure mathematics (algebra, analysis, geometry) and applications of mathematics, including those to theoretical physics and statistics. The material is delivered through lectures and tutorials. In the Freshman years, students are taught core topics in mathematics and its applications. In the Sophister years, students take modules in advanced topics, and also undertake an independent research project.

Regulations

7 See GENERAL REGULATIONS AND INFORMATION and handbook of the School of Mathematics for information on regulations and available modules.

Students entering before 2019-20

Moderatorship, Part I

8 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 50 per cent toward the final award.

Moderatorship, Part II

9 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 50 per cent toward the final award.

10 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

11 Bachelor in Arts (Moderatorship).

Students entering from 2019-20 onwards

Moderatorship, Part I

12 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

13 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Award

14 Depending upon student choices made within their programme of study it is possible to confer with a Bachelor in Arts (Moderatorship) award in one of the following categories:

- Single honors
- Major with minor

MODERATORSHIP IN THEORETICAL PHYSICS

Introduction/overview

15 The moderatorship in theoretical physics is taught jointly by the School of Mathematics and the School of Physics, and is professionally accredited by the Institute of Physics. Students study the core concepts of physics and mathematics, including mechanics, quantum physics, electrodynamics, elementary particle physics, and gravitation. The programme consists of classroom lectures, tutorials and laboratory work.

In Junior Freshman year, students are taught some of the core topics of the course; they take 40 credits of modules taught by the School of Mathematics and 20 credits of modules taught by the School of Physics. In Senior Freshman year, students take further modules in core topics of theoretical physics. In Sophister years, students take modules in advanced topics, and also undertake an independent research project in one of the schools.

Regulations

16 See GENERAL REGULATIONS AND INFORMATION and handbooks of the School of Mathematics and the School of Physics for information on regulations and available modules.

Students entering before 2019-20

Moderatorship, Part I

17 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 35 per cent toward the final award.

Moderatorship, Part II

18 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 65 per cent toward the final award.

19 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

- 20 Bachelor in Arts (Moderatorship).

Students entering from 2019-20 onwards

Moderatorship, Part I

21 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

22 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Award

23 Bachelor in Arts (Moderatorship).

Transfer of course

24 Students may apply through their tutor to transfer from the honor course in theoretical physics to the honor course in mathematics not later than the beginning of the Senior Sophister year.

Sophister students in theoretical physics may apply through their tutor to transfer to the honor course in physics (see COURSES IN SCIENCE, section V), not later than the beginning of the Senior Sophister year.

Each request to transfer is considered by the heads of school concerned, who will then make recommendations to the Senior Lecturer. All transfers are subject to general College regulations (see GENERAL REGULATIONS AND INFORMATION).

V COURSES IN SCIENCE

1 For students who entered the science programmes in 2018 and onwards, the following programmes are available:

TR060 Biological and biomedical sciences

TR061 Chemical sciences

TR062 Geography and geoscience

TR063 Physical sciences

TR031 Mathematics (see SCHOOL OF MATHEMATICS, section IV, §6)

TR035 Theoretical physics (see SCHOOL OF MATHEMATICS, section IV, §15)

TR060 Biological and biomedical sciences

Introduction/overview

2 This stream is the pathway for entry into the biological and biomedical sciences, leading to moderatorships in biochemistry, botany, environmental sciences, genetics, human genetics, immunology, microbiology, molecular medicine, neuroscience, physiology and zoology.

Moderatorship, Part I

3 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

4 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

TR061 Chemical sciences

Introduction/overview

5 In the chemical sciences stream, students will study the core concepts that are fundamental to all of chemistry including topics in physical, organic and inorganic chemistry. Moderatorship subjects will be available in chemistry, chemistry with molecular modelling, medicinal chemistry and nanoscience (the physics and chemistry of advanced materials).

Moderatorship, Part I

6 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

7 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

TR062 Geography and geoscience

Introduction/overview

8 The geography and geoscience degree programme is the pathway for entry to the study of geography, geology and geoscience.

Moderatorship, Part I

9 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

10 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

TR063 Physical sciences

Introduction/overview

11 In the physical sciences stream, students will study the core concepts that are fundamental to all of physics with the opportunity to choose between the available moderatorship subjects of physics, physics and astrophysics, and nanoscience. Students wishing to specialise in nanoscience are required to select chemistry (20 credits) as approved options.

Moderatorship, Part I

12 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

13 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

MODERATORSHIP IN SCIENCE

14 For students who entered the TR071 Science course up to and including 2017, the moderatorship in science is available in each of the following subjects: biochemistry, chemistry, environmental sciences, genetics, geography, geology, immunology, microbiology, molecular medicine, neuroscience, physics, physics and astrophysics, physiology, plant sciences, and zoology.

15 Theoretical physics, taught jointly by the Schools of Mathematics and Physics, is available as a separate moderatorship degree course. See SCHOOL OF MATHEMATICS, section IV, §15.

16 For students who entered Trinity College up to and including 2017, separate moderatorship courses are available in earth sciences (see below), human genetics (see below), chemistry with molecular modelling (see below), medicinal chemistry (see below), nanoscience, physics and chemistry of advanced materials (see below), and political science and geography (see below).

17 The Freshman modules are intended to provide both a training in general science and an introduction to the moderatorship subject. In the Junior Sophister year students will work primarily

in the moderatorship subject but may take a selection of related modules offered by other schools or departments. All students wishing to proceed to moderatorship in any one of the subjects specified in §14 above are required to complete satisfactorily the Freshman modules in science except by decision of the Associate Dean of Undergraduate Science Education.³

Regulations

18 See GENERAL REGULATIONS AND INFORMATION.

19 After the publication of Senior Freshman examination results each year, all successful students are offered moderatorship places. Admission to each moderatorship may be limited by a quota established annually by reference to the teaching resources available to each school or department. To be qualified for a given moderatorship, students must have completed satisfactorily both Freshman years and must have read the stated prerequisite modules as set out in in the programme handbook for any moderatorship for which they wish to be considered. Students who have not completed the prerequisites for a given moderatorship may still be considered for that moderatorship if places are available.

Moderatorship examination

20 The Junior and Senior Sophister examinations constitute part I and part II of the moderatorship examination.

21 The final moderatorship result is calculated by aggregating the Junior and Senior Sophister examination results as per Table II.

TABLE II — CALCULATION OF MODERATORSHIP RESULTS (2019-20)

Moderatorship	
Biochemistry	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Botany	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Chemistry	Junior Sophister 35 per cent, Senior Sophister 65 per cent
Environmental sciences	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Genetics	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Geography	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Geology	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Immunology	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Microbiology	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Molecular medicine	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Neuroscience	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Physics	Junior Sophister 35 per cent, Senior Sophister 65 per cent
Physics and astrophysics	Junior Sophister 35 per cent, Senior Sophister 65 per cent
Physiology	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Plant sciences	Junior Sophister 20 per cent, Senior Sophister 80 per cent
Zoology	Junior Sophister 20 per cent, Senior Sophister 80 per cent

Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

³See GENERAL REGULATIONS AND INFORMATION, 'Advanced entry'.

Sophister courses – TR071 programme

22 Sophister courses in science are organised so that students follow a continuous programme of study over two years leading to a moderatorship in a particular subject. Students will be required to take modules carrying 60 credits in each year.

A '*Sophister course programme*' is published annually and is available to students in Hilary term each year from the [Science Course Office](#).

BIOCHEMISTRY

Biochemistry is a moderatorship course offered by the [School of Biochemistry and Immunology](#). The focus is on understanding how living cells function at a molecular and cellular level. It encompasses a wide range of topics such as cancer biology, stem cell biology, immunology, neurobiology, developmental biology and drug discovery.

BOTANY⁴

Teaching in botany is research led and focuses on the areas of ecology, systematics and conservation and whole plant physiology. Extensive use is made of the notable departmental herbarium and the College Botanic Garden. In the Junior Sophister year, subject to resources being available, one of the field courses will take place in the Canary Islands. The moderatorship aims to produce graduates equipped with a range of subject-specific and transferable skills

CHEMISTRY

Junior Sophisters take modules in organic, inorganic, physical, analytical and biological/polymer chemistry. Further topics, including computational and medicinal chemistry may be provided in an option module. The modules provided cover topics such as organic mechanisms and synthetic methods, heterocyclics, organometallic C-C couplings, pericyclic reactions, organoheteroatom chemistry, physical organic chemistry, retrosynthesis, bio-organic chemistry including natural products, amino acids and peptides, organic and inorganic polymers, group theory, spectroscopy and other physical methods, quantum chemistry and statistical mechanics, advanced thermodynamics and kinetics, coordination chemistry, solid state chemistry, structural inorganic chemistry and related characterisation techniques, properties of soft matter, bio-inorganic chemistry, organometallics, catalysis and surface chemistry, electrochemistry, analytical chemistry, metal compounds in the environment, drug design and clusters. Lectures are complemented by practical classes in inorganic, organic, physical and computational chemistry; advanced preparative methods and instrumental techniques, including computer-controlled equipment are introduced.

ENVIRONMENTAL SCIENCES

Environmental sciences is a multidisciplinary subject which focuses on understanding and mitigating the impact of human populations on natural systems and processes. This requires the integration of physical and life sciences, engineering, economics and social sciences. The moderatorship course at Trinity College Dublin adopts this multidisciplinary ethos. The course is delivered through the collaboration of all disciplines in the [School of Natural Sciences](#) (Botany, Geography, Geology, and Zoology), the [School of Engineering](#) and other participating disciplines.

GENETICS

The teaching and research activities of the Genetics Department are in the areas of molecular, human, population and quantitative genetics and evolution. The Junior Sophister modules are designed to prepare for, and to introduce, advanced material from these and other related areas of genetics. Central genetics modules cover the basic processes of inheritance and gene

⁴Prior to 2019-20 this Sophister option was called plant sciences. Senior Sophister students in 2019-20 will be eligible for an award in plant sciences. Senior Sophister students in subsequent years will be eligible for an award in botany.

expression, and genome structure and evolution, in man and other animals, plants, bacteria and viruses. The modules in molecular genetics depend heavily on the theory and techniques of genetic engineering while those in molecular evolution, population and quantitative genetics introduce students to computing and computer programming.

GEOGRAPHY

Geography in the two Sophister years constitutes a progressive course that builds on work covered in earlier years, the aim being to produce graduates who, while having a firm grounding in geography, are also equipped with a range of subject-specific and transferable skills.

GEOLOGY

Modern geology is a dynamic science, which, in its broadest sense, aims at understanding the solid Earth, its interaction with the oceans and the atmosphere as well as the mineral and energy resources that provide for modern, highly developed society. The moderatorship prepares students for the many career opportunities in geology and provides training in both transferable and subject specific skills.

IMMUNOLOGY

Students may opt to take a moderatorship in immunology offered by the [School of Biochemistry and Immunology](#). The immunology modules in the Junior Sophister year are core concepts in immunology, and immunology and disease (including bacterial, viral and parasitic diseases, autoimmune diseases, allergy and asthma, cancer and transplantation).

MICROBIOLOGY

Microbiology is the branch of biological science that deals with microorganisms – bacteria, protozoa, fungi (moulds and yeasts), and viruses. Microbiology is central to modern biomedical science, the agri-food industry and to studies of the environment. It is also an emerging force in bioenergy and systems biology. Students are given an introduction to the microbial sciences in their Freshman microbiology modules before specialising in microbiology in the Sophister years.

MOLECULAR MEDICINE

Molecular medicine is a moderatorship run jointly by the [School of Biochemistry and Immunology](#) and the [School of Medicine](#). This option has been introduced to recognise the revolutionary advances in disease diagnosis, therapy and prevention brought about by bio-molecular research and aims to demonstrate how basic science is translated into clinical treatment.

NEUROSCIENCE

Neuroscience is a discipline devoted to the scientific study of the nervous system in health and disease, and is at the interface between neurobiology and cognitive science. It includes study of the nature and functioning of the nervous system at all levels, from the molecules that make up individual nerve cells, to the complexities of how behaviour, thoughts and emotions are produced. Neuroscience is a multidisciplinary area of investigation that makes use of a variety of methods and investigations from a wide range of traditional disciplines.

PHYSICS

Tuition will consist of lectures, practical work, tutorials and seminars in advanced physics as follows:

Junior Sophister modules of 5 credits each include quantum mechanics I, electromagnetic interactions I, condensed matter I, condensed matter II, atomic and nuclear physics, dynamical systems, experimental techniques, with a choice of either computer simulation I or stellar and galactic structure. Students also take either the practical module of 20 credits or the practical module of 15 credits and a Trinity Elective/Broad Curriculum module of 5 credits. The practical

modules combine set experiments of an advanced nature with a component of communication skills and career development.

Senior Sophister modules cover quantum mechanics II, high energy physics, condensed matter III, nanoscience, electro-magnetic interactions II, and modern optics. Students also take the module advanced topics in physics, in which they choose from a range of specialist topics, and complete a course in problem-solving and an extended research project.

PHYSICS AND ASTROPHYSICS

Tuition will consist of lectures, practical work, tutorials and seminars in advanced physics, with emphasis on astrophysics as follows:

Junior Sophister modules of 5 credits each include quantum mechanics I, electromagnetic interactions I, condensed matter I, atomic and nuclear physics, computer simulation I, stellar and galactic structure, statistical thermodynamics and astrophysical spectroscopy, experimental techniques for astrophysics. Students also take either the practical module of 20 credits or the practical module of 15 credits and a Trinity Elective/Broad Curriculum module of 5 credits. The practical modules combine set experiments of an advanced nature, a component of communication skills and career development, and specialist computer training.

Senior Sophister modules cover quantum mechanics II, high energy physics, electromagnetic interactions II, modern optics, computer simulation III, planetary and space science, and cosmology. Students also complete a course in problem-solving and an extended research project in physics or astrophysics.

PHYSIOLOGY

Physiology is the study of how cells work, how they co-operate in organs like the heart or brain and how the operation of these organs is integrated. The moderatorship in physiology provides students with an in-depth understanding of mammalian body function from the molecular level to that of the whole organism, with especial emphasis on human physiology in health and disease.

To be eligible to enter the physiology moderatorship, students must have successfully completed the prerequisite Senior Freshman modules, which provide an introduction to the nervous (brain and spinal cord), cardiovascular (blood circulation), respiratory (lungs), gastrointestinal (digestion), excretory (kidneys) and endocrine (hormones) systems, as well as fundamentals of biochemistry and genetics. The Sophister years build on this introduction to provide a detailed functional understanding of cells and of organ systems, together with training in scientific methodology, experimental design and data analysis. Areas of physiology which reflect major research interests of the department include cell physiology, neuroscience and exercise physiology.

ZOOLOGY

Zoology offers Sophister students training in many areas of the biology of animal systems emphasising particularly those aspects that relate to ecology, conservation and wildlife biology, parasitology, marine biology, developmental biology and behaviour. The Junior Sophister course highlights the major concerns of modern zoology and introduces the student to the full range of zoological interests, from the evolutionary origins of biodiversity and ecological system services to the genetic basis of development in embryos. The Senior Sophister course offers choices of tutorial module topics to allow the student to tailor their course to their interests and complement their research project.

MODERATORSHIP IN EARTH SCIENCES

23 For students who entered the direct entry moderatorship course in earth sciences (TR077) up to and including 2017, the earth sciences moderatorship aims to produce graduates with a broad and holistic knowledge of the planet Earth. It emphasises the interconnected nature of the geosphere (rocks and sediments), the hydrosphere (lakes, oceans and ice), the atmosphere (weather and climate) and the biosphere (plants and animals). It seeks to develop an

understanding of the processes operating today and in the past, and how this knowledge can inform us about the future.

24 The degree is awarded under the regulations of the science course.

Students entering up to and including 2017

Moderatorship, Part I

25 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 20 per cent toward the final award.

Moderatorship, Part II

26 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 80 per cent toward the final award.

27 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

28 Bachelor in Arts (Moderatorship).

MODERATORSHIP IN HUMAN GENETICS

Introduction/overview

29 For students who entered the moderatorship course in human genetics (TR073) up to and including 2017, it provides students with a strong foundation in biology, mathematics and chemistry, an introduction to major fields of genetics and specialised modules in human genetics.

30 The course differs from the moderatorship in genetics in the obligation to study a particular combination of modules in the four year course and the concentration on human genetics. The degree is awarded under the regulations of the science course.

31 Human genetics is a rapidly growing discipline within the subject of genetics. The field has acquired a distinctive body of knowledge and theory and experimental procedures and is presenting major challenges in both research and teaching. It has been revolutionised by the techniques of recombinant DNA (genetic engineering, molecular cloning, genome sequencing, microsatellite markers, polymerase chain reaction, transgenic animals, etc.), and the data emerging from the Human Genome Project. The subject has been stimulated by the explosion in knowledge of medical genetics, especially the molecular basis of many inherited disorders; the explanation of cancer as an acquired genetic disease; the study of molecular evolution (which is telling much about the evolution of man); the study of the history and geography of human genes (linking genetics, anthropology and linguistics), and of ancient DNA (linking genetics and archaeology); the application of DNA fingerprinting to forensic science, and decisions about suitability for employment and insurance (linking genetics to law and business). Substantial problems in ethics have been raised as a result of the studies in human genetics.

32 Students must meet the general requirements of the science course in order to rise with their year.

Students entering up to and including 2017

Moderatorship, Part I

33 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 20 per cent toward the final award.

Moderatorship, Part II

34 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 80 per cent toward the final award.

35 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

36 Bachelor in Arts (Moderatorship).

MODERATORSHIP IN CHEMISTRY WITH MOLECULAR MODELLING

37 The moderatorship in chemistry with molecular modelling (TR074) allows students to obtain a core chemistry degree while specialising in the theoretical and applied aspects of molecular modelling, from materials chemistry to computational drug design.

38 The degree is awarded under the regulations of the science course. In certain cases it may be possible for students to transfer from the TR071 science course, as detailed below.

39 A student taking the main course in science (TR071) may apply to transfer to the course in chemistry with molecular modelling (TR074). Conversely, a student of chemistry with molecular modelling (TR074) may apply to transfer to the science (TR071) course. Applications will be assessed on the basis of students' qualifications at entry, as well as their academic record in College, and any transfer will be subject to the availability of places.

40 Students must meet the general requirements of the science course in order to rise with their year.

Students entering up to and including 2017

Moderatorship, Part I

41 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 35 per cent toward the final award.

Moderatorship, Part II

42 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 65 per cent toward the final award.

43 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

44 Bachelor in Arts (Moderatorship).

MODERATORSHIP IN MEDICINAL CHEMISTRY

45 The moderatorship in medicinal chemistry (TR075) is especially attuned to the development of the creative talent needed by the major enterprise that is the modern pharmaceutical industry, one of the largest and fastest-growing business sectors in the modern world. The medicinal chemistry degree provides a sound general grounding in chemistry but focuses on, and extends into, topics of relevance to the design, synthesis and biological evaluation of new medicinal compounds.

46 The degree is awarded under the regulations of the science course. In certain cases it may be possible for students to transfer from the TR071 science course, as detailed below.

47 A student taking the main chemistry course in science (TR071) may apply to transfer to the course in medicinal chemistry (TR075). Conversely, a student of medicinal chemistry (TR075) may apply to transfer to the TR071 course. Applicants will be assessed on the basis of their qualifications at entry, as well as on their academic record in College, and any transfer will be subject to the availability of places.

48 Students must meet the general requirements of the science course in order to rise with their year.

Students entering up to and including 2017

Moderatorship, Part I

49 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 35 per cent toward the final award.

Moderatorship, Part II

50 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 65 per cent toward the final award.

51 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

Bachelor in Arts (Moderatorship).

MODERATORSHIP IN NANOSCIENCE, PHYSICS AND CHEMISTRY OF ADVANCED MATERIALS⁵

52 The moderatorship course in nanoscience, physics and chemistry of advanced materials (TR076) allows students to specialise in nanoscience at an advanced level during their undergraduate careers due to the combination of modules and practical experience offered by the Schools of Physics and Chemistry.

53 The course shares many lectures with those given for the moderatorships in chemistry and in physics, and also provides some specialist advanced nanoscience and materials modules with a specifically tailored practical module that emphasises nanoscience. The degree is awarded under the regulations of the science course.

54 Nanotechnology is being used to develop smaller and more powerful electronic devices, lasers and other photonic devices, medical diagnostics and materials with new properties. The interdisciplinary nature of the moderatorship in nanoscience, physics and chemistry of advanced materials gives graduates a broad scientific education that is ideal for careers in the nano- and information-technology sectors as well as an excellent starting point for higher degrees in nanomaterials research.

55 A student who has taken mathematics, chemistry and physics in the Freshman years in science (TR071) may apply to transfer to the course in nanoscience, physics and chemistry of advanced materials (TR076). Conversely, a student on the course in nanoscience, physics and chemistry of advanced materials (TR076) may apply to transfer to the TR071 course. Applicants will be assessed on the basis of their qualifications at entry, as well as on their academic record in College, and any transfer will be subject to the availability of places.

56 Students must meet the general requirements of the science course in order to rise with their year.

Students entering up to and including 2017

Moderatorship, Part I

57 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 35 per cent toward the final award.

⁵Prior to 2011-12 this course was called the Moderatorship in Physics and Chemistry of Advanced Materials.

Moderatorship, Part II

58 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 65 per cent toward the final award.

59 Students who are required to repeat one or more years, or go off-books for one or more years, may have their moderatorship results calculated as a weighted average of their overall results achieved in third year (contributing 30 per cent) and fourth year (contributing 70 per cent).

Award

60 Bachelor in Arts (Moderatorship).

MODERATORSHIP IN PHYSICS

(IN CONJUNCTION WITH THE UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING)

61 Students admitted to this degree programme will have successfully completed the first two years of undergraduate study in physics at the University of Science and Technology Beijing (USTB) and enter the Junior Sophister year of the physics degree programme in Trinity College Dublin. Students follow the Junior and Senior Sophister years of the physics degree as prescribed in the School of Physics undergraduate handbook. Progression rules for students in the Sophister years of the degree programme are the same as for students who enter the programme via the TR063 entry stream.

Moderatorship, Part I

62 The results of the Junior Sophister year constitute Moderatorship, Part I and contribute 30 per cent toward the final award.

Moderatorship, Part II

63 The results of the Senior Sophister year constitute Moderatorship, Part II and contribute 70 per cent toward the final award.

Award

64 Bachelor in Arts (Moderatorship).

MODERATORSHIP IN POLITICAL SCIENCE AND GEOGRAPHY

65 For details see FACULTY OF ARTS, HUMANITIES AND SOCIAL SCIENCES.

BACHELOR IN SCIENCE (HUMAN HEALTH AND DISEASE)

66 For details see FACULTY OF HEALTH SCIENCES.