



Skills &
Education
Group Access



Access to HE (Medicine)

Diploma Guide

Contents

1. Diploma Background and Aims	3
2. Course Recognition.....	3
3. Diploma and Credit Specification	4
4. Target Groups.....	5
5. Intended Progression Routes	6
6. Rules of Combination	6
6.1 Required Achievements for the Access to HE Diploma	6
6.2 Differentiated Performance	8
6.3 Curriculum, Delivery and Assessment.....	8
6.4 Recognition of Prior Learning and Credit Transfer.....	9
6.6 Special Requirements.....	10
6.7 Supporting Students	10
6.8 Credit Accumulation and Recognition of Student Achievement	10
7. Quality Assurance	11
7.1 Operation of Moderation Processes.....	11
7.2 Review of Moderation Guidance to Ensure Continued Currency	12
7.3 Moderation Reports.....	12
7.4 Course Monitoring and Review.....	12
7.5 Standardisation	12
7.6 Award of the Access to HE Diploma	13
7.7 Data Systems	13
7.8 Issue and Dispatch of Access to HE Diplomas and Achievement Transcripts.....	13
Appendix 1 – Units of Assessment.....	15
Grading Descriptors.....	15
Access to HE Diploma (Medicine) Units.....	15
Appendix 2 – Exclusion Rules of Combination.....	17

1. Diploma Background and Aims

The Access to HE Diploma (Medicine) sits within the sector subject area of Science and Mathematics. The Access to HE Diploma (Science) is a successful Diploma for Skills Education Group Access, leading to excellent progression for students, as has the Access to HE Diploma (Health Science Professionals). Both of these Diplomas share many of the same units as the Access to HE Diploma (Medicine). The aim of the Access to HE Diploma (Medicine) is to give students a more direct and specific route to degrees in Medicine. Therefore, in conjunction with sector experts from both further education (FE) and higher education (HE), and with support from the Quality Assurance Agency for Higher Education (QAA) via its specific subject descriptor document and a mandatory unit in Professional Behaviours, the Access to HE Diploma (Medicine) will aim to provide students with the skills and knowledge required to successfully progress to degrees in Medicine and related areas of study.

The aims of the Access to HE Diploma (Medicine) are as follows:

- Provide students with a strong foundation in Chemistry and Human Biology which are principal entry requirements of medical schools and integral to the study of Medicine.
- Enable students to develop the ability to apply abstract scientific concepts.
- Provide students with the laboratory skills that will be vital to higher levels of study in Medicine.
- Provide students with the required level of understanding in Physics and Mathematics to give them a more thorough comprehension of the study they will undertake in Biology and Chemistry.
- Enable students to develop the necessary study skills they need to progress to higher levels of education, including academic writing.
- Provide a range of assessments that will emulate those that students will face during their successful progression into a medical degree at university.

2. Course Recognition

The Access to HE Diploma (Medicine) meets the AVA's policies and priorities for new provision. Skills and Education Group Access's approach to developing this Diploma is transparent, systematic and as consistently applied as all other named Access to HE Diplomas. Skills and Education Group Access also ensures that all Access to HE Diplomas are fit for purpose in providing an appropriate preparation for study in HE for adults from defined target groups.

Skills Education Group Access has worked with curriculum specialists from medical schools and further and Higher Education Institutes (HEIs) during the development of the Access to HE Diploma (Medicine). The QAA Subject Descriptor for this Diploma has provided Skills Education Group Access with very strict criteria to follow in the development. This has involved meetings to agree upon curriculum content, level, grading descriptors and general rules of combination. A timetable of events and timescales was drawn up where

curriculum experts were invited to remote meetings, and discussions to agree on the final unit list for this Diploma.

The validation process will follow Skills Education Group Access's panel guidelines and agenda. Panel membership will include Providers interested in adopting the Diploma, and HEIs that may consider making offers to students with the award of the Diploma. Units within the Diploma will be mostly existing units from within the Access to HE Diploma (Science) or (Health Science).

New units were developed to meet the mandatory requirements of the rules of combination:

- Mathematics: Mathematics for Medicine (3 credits – Ungraded)
- Biology: Cellular Structure and Activity (3 credits – Graded)

Existing approved graded units were used to create ungraded (exploring) versions:

- Biology: Exploring Defence Against Disease
- Biology: Exploring Infection and Immunity
- Biology: Exploring the Urinary System
- Chemistry: Exploring Chemistry and Society
- Chemistry: Exploring Organic Compound Analysis
- Chemistry: Exploring Organic Compounds Containing Oxygen or Nitrogen
- Chemistry: Exploring Redox and Periodicity

The QAA-approved unit Medical: Professional Behaviours for Medical Practitioners will be issued with a Skills Education Group Access unit code following Diploma validation.

Providers wishing to adopt the Diploma following Skills Education Group Access's Committee approval will be invited to make an application for approval to run.

3. Diploma and Credit Specification

The QAA Diploma and Credit Specification states that the Access to HE Diploma is a:

- Unitised qualification, based on units of assessment which are structured in accordance with the Access to HE unit specification
- Credit-based qualification, operated in accordance with the terms of the Access to HE credit specification
- Graded qualification, as determined by the Access to HE Grading Scheme
- Level 3 qualification, regulated by QAA

www.accesstohe.ac.uk/AboutUs/Publications/Pages/Default.aspx

Skills and Education Group Access has ensured that the proposals within this document meet the requirements of the Access to Higher Education Diploma and Credit Specification and any other regulatory information about the Access to HE Diploma, and that students who are awarded the Access to HE Diploma (Medicine) will have completed a planned, balanced and coherent programme of study, through which they have been able to acquire a subject knowledge and develop academic skills which are relevant to the intended progression route(s).

The generic requirements for the Access to HE Diploma are that:

- a) The total credit achievement is 60 credits
- b) Of these 60 credits, 45 credits must be achieved at Level 3 from graded units, which are concerned with academic subject content (Annex B)
- c) The remaining 15 credits must be achieved at 3 from units which are ungraded (Annex B)

Providers running this (or any) named Diploma, must ensure that all relevant information, including a full set of units, must be made available to students. The detail of how units must or may be combined, including rules of exclusion or inclusion, is detailed within the Rules of Combination (RoC) in section 6 of this document.

4. Target Groups

Skills Education Group Access has developed the Access to HE Diploma (Medicine) specifically for students who wish to develop their academic study and vocationally related skills and aptitudes to prepare for the application and progression into HE programmes related to Medicine. QAA states that "entry onto Access to HE Diplomas should be made according to transparent and justifiable criteria and should include reference to:

1. The match between the applicant's aims and goals and the primary aim of the programme as a preparation for study in HE and the applicant's ability to benefit from the programme.
2. The applicant's potential to meet the demands of the programme and complete the programme requirements successfully.
3. The applicant's life experience: Successful applicants will normally have substantial experience of life outside of formal education, gained since completing compulsory schooling or higher education. This experience may support their application into HE.
4. The applicant's educational experience: Where an applicant has recently undertaken the whole, or part of, another Level 3 course, the application should be considered with particularly careful reference to points 1-3, above."¹

The Access to HE Diploma (Medicine) is aimed at a range of target groups, including people who are returning to education after being employed in similar sectors; people seeking qualifications to enable them to change their career path; and students seeking a foundation in a number of subjects related to Medicine before moving on to higher level study in the UK.

The entry requirements for individual medical schools will vary and change regularly. Providers and applicants should check medical school websites on a regular basis to ensure that students on the Access to HE Diploma (Medicine) are aware of the current entry requirements and that they are given sound

¹ www.qaa.ac.uk/access-to-he/access-to-he-resources

advice on their own ability to meet these requirements. It is advised that where applicants have exceptional circumstances (meaning that they are unable to meet all of the eligibility criteria of a medical school), they make early contact with the admissions department of the relevant medical school.

Medical schools have additional entry requirements which may include the following:

Grades at GCSE or equivalent are highly likely to be considered as part of the application for Medicine. Students should be made aware of medical schools' emphasis on them.

Furthermore, most medical schools have an entry test which assesses aptitude; this is likely to be either the University Clinical Aptitude Test or the Biomedical Admissions Test. These tests will be early in the academic year. Providers should ensure that students are aware of these tests at the application stage for the Diploma and that they are supported in preparing for these tests.

Medical school course details will set out any health, financial, or Disclosure and Barring Service (DBS) or Protecting Vulnerable Groups (PVG) checks that may be required. Providers should discuss this with students prior to the point of admission to the Diploma.

5. Intended Progression Routes

Skills and Education Group Access has worked with further education (FE) and HE experts, employers, and specialised recruitment agencies during the development process to agree on the units and any Rules of Combination (RoC) so that the Access to HE Diploma (Medicine) provides a suitable preparation for HE and future employment. Providers and others wishing to adopt or use this Diploma have suggested the following possible progression routes for students:

- Medicine
- Biomedical Science
- Clinical Science
- Biochemistry
- Biology
- Chemistry
- Medical Science
- Nursing
- Midwifery
- Paramedical Science
- Physiotherapy
- Podiatry
- Dietetics
- Medical Physiology
- Sport and Exercise Science
- Pharmacology

6. Rules of Combination

6.1 Required Achievements for the Access to HE Diploma

The Access to HE Diploma (Medicine) has been constructed from a set of units that have been developed and approved by Skills Education Group Access for the

use in this Diploma. In line with regulation, all units have a specific credit value and level. There are no Level Two units within this Diploma.

The Access to HE Diploma (Medicine) complies with the subject descriptor requirements as mandated by QAA in the Subject Descriptor for Medicine document. Please note that the table below shows the minimal credit requirements as set out by QAA; Skills Education Group Access may have increased the minimum credit requirements in Skills Education Group Access in the following subjects:

Mandatory subjects	Minimum credit requirement at graded Level 3	Minimum credit requirement at ungraded Level 3	
Chemistry	15		
Biology/human biology	15		
Other science/mathematics	9		
Use and comprehension of numerical data		3	
Study skills		3	
Professional behaviours		3	
Total credit values	39	9	
Credits remaining	6³	6⁴	
Diploma credit total	45	15	60 credits

3 The remaining credits may be used within any of the graded mandatory subjects identified in the framework.

4 The remaining credits may be used within any of the mandatory subjects identified in the framework as graded or ungraded.

Where options are available within a single set of rules of combination, which allow alternative requirements for the achievement of a named Diploma, the alternatives permitted by the options are consistent in terms of academic challenge and demand, and will require equivalent standards for achievement, whenever and wherever it is delivered.

Access to HE Diploma (Medicine)²

Access to HE Diplomas titles must conform to a common format: Access to Higher Education Diploma (name of subject/area of study/progression route).

If a Diploma is intended to provide progression to combined or less specific progression routes, the name must reflect this, by specifying the particular subject area(s) referenced to any of the major subject groupings (arts, humanities, sciences, social sciences) either singly (e.g.

² QAA Access to HE Diploma Specification (2020) – Annex A

Access to Higher Education Diploma (Combined Science)) or in any combination (e.g. Access to Higher Education Diploma (Social Studies combined with Arts)). Current QAA guidance on Access to HE Diploma titles can be found in the Access to Higher Education Diploma Specification which can be found in the Regulation section of the Access to HE website:

<https://www.qaa.ac.uk/access-to-he/access-to-he-resources>

Credit value of the Diploma:

60

Students must achieve 60 credits from this Diploma.

All Diplomas are 60 credits, irrespective of the place, subject or mode of study. Of the 60 credits, 45 must be from graded units concerned with academic subject content, with the remaining 15 credits to be achieved from ungraded Level Three units³. There are no Level Two units within this Diploma.

Students undertaking any Access to HE Diploma, whatever their mode of study, must be:

- a) Registered within 42 days of the start date of their Access to HE course
- b) Registered to units to the value of 60 credits no later than 84 days from the start date of their Access to HE course
- c) Registered and certificated for units to a maximum value of 60 credits
- d) Re-registered with Skills Education Group Access if study time of the Diploma exceeds three years
- e) Carefully guided through the rules of combination, including those related to rules of inclusion and exclusion of units to inform their chosen units and associated progression-route requirements

6.2 Differentiated Performance

Consideration has been given to the allocation of grading descriptors "to ensure that they provide opportunities for differentiation of performance consistent with the requirements of the grade descriptors"⁴.

6.3 Curriculum, Delivery and Assessment

It is expected that "information provided about unit content, delivery and assessment methods is sufficient to ensure consistency in the required standards of achievement, whenever and wherever the Diploma is delivered"⁵.

The Medical Schools Council has advised QAA during the development of the Subject Descriptor for Medicine that there is a preference from medical schools for "formal examinations that are comparable in format to first/second year undergraduate and A-level in style, to include multiple-choice [single best answer and possibly extended matching] questions Access to HE students to be

³ QAA Access to HE Diploma Specification (2020) – Annex C

⁴ QAA, Grading Scheme Handbook, September 2020

⁵ QAA, AVA Licencing Criteria, May 2019 / The Access to Higher Education Diploma Specification

subject to end of unit exams as well as end of year exams, the latter to demonstrate retention of information.”⁶

Whilst it is not a requirement of QAA or of Skills Education Group Access that students sit end-of-year examinations, students should gain experience and the ability to demonstrate achievement in assessments which prepare them for HE in this subject area.

“This should include the following forms of assessment:

- A substantial number of time constrained, unseen assessments or examinations, ideally to include at least one instance of single, best answer, multiple choice questions
- At least one each of the following - essay prepared using relevant academic conventions - report using practical, research, mathematical, statistical and writing skills as appropriate - oral presentation to include visual aids and appropriate resources - reflective accounts.”⁷

In course planning, Providers are encouraged to consider which units/groups of units they will link to these different assessment methods to produce an effective and manageable assessment plan. Skills and Education Group Access expects that all teaching staff will have the professional competence, skills and subject expertise to teach and assess the Diploma units using the modes of delivery selected. Tutors will be qualified to at least one level above the Diploma level. Providers who are approved to run the Diploma will be provided access to the Diploma Specification and associated unit content in order to prepare their teaching curriculum and assessment practice and schedules.

6.4 Recognition of Prior Learning and Credit Transfer

Recognition of Prior Learning will not be considered under any circumstances on the Access to HE (Medicine) Diploma.

Credit transfer can be graded and may be considered in highly exceptional circumstances. A Provider will work with Skills Education Group Access in consideration of any Transfer of Credit requests. Students must be informed about the strict Rules of Combination of the Access to HE Diploma (Medicine), as well as the entry requirements into medical schools when making a request for Transfer of Credit.

6.5 Successful Completion Criteria

Skills and Education Group Access expects that any successful completion criteria that are in addition to the Diploma’s rules of combination do not make demands which impact achievement. Those students who successfully complete 60 credits within the rules of combination will receive a Diploma certificate and unit transcript. Those students who achieve less than 60 credits will receive a unit transcript.

⁶ QAA Subject Descriptor for Access to HE (Medicine) 2020

⁷ QAA Subject Descriptor for Access to HE (Medicine) 2020

Students must be informed that successful completion of the Access to HE Diploma (Medicine) does not necessarily provide guaranteed entry into a UK medical school.

6.6 Special Requirements

Evidence of design, performance and interpretation of laboratory experiments is a requirement of the Diploma. Therefore, the Access to HE Diploma (Medicine) is likely to require significant access to laboratories and associated resources related to the subjects within this Diploma. Any Provider wishing to adopt the Diploma will be required to demonstrate that they have the appropriate resources and equipment to enable students to undertake the assessments required of the units.

Section 4 – Target Groups outlines other criteria for success which Providers wishing to adopt the Diploma must take account of.

6.7 Supporting Students

Skills Education Group Access expects all students will be offered appropriate support during their course of study until they have completed the Diploma. Students will be encouraged to use a range of resources to support their progress and to engage with appropriate staff at their Provider for further information and advice. The assessment methodology must be appropriate and rigorous for an individual or groups of students.

Students who express an interest in undertaking the Access to HE Diploma (Medicine) must be provided with pre-course guidance on the medical school entry criteria, application process and timescales. These may differ across medical schools; it is expected that students will be provided with support to meet them.

For students with particular requirements, Providers should refer to the Skills Education Group Access, Access to Fair Assessment Policy and Procedure which can be found in the Skills Education Group Access Provider Handbook.

The Access to Fair Assessment Policy and Procedure section in the Provider Handbook gives clear guidance on the Reasonable Adjustment and Special Consideration arrangements that can be made to take account of particular needs or learning difficulty, without compromising the achievement of the assessment criteria.

6.8 Credit Accumulation and Recognition of Student Achievement

Students accumulate credit towards the award of the Diploma. In general, they do this by achieving units of a particular credit value (3, 6 or 9 credits) through the process of assessment on the Access to HE Diploma (Medicine) but may also do this through the process of credit transfer and through the recognition of prior learning.

Student achievement is recognised both through the award of level, credit and grades (as identified on an achievement transcript) and the award of the Diploma (as identified on a certificate), subsequent to the student having satisfied the requirements of the rules of combination of the Access to HE

Diploma (Medicine). The award of the Diploma will, therefore, indicate that a student has successfully met the generic requirements for achievement of an Access to HE Diploma, as well as the particular requirements of the Access to HE Diploma (Medicine).

Skills Education Group Access expects that where the Access to HE Diploma (Medicine) is intended to lead to further study for a professional qualification, students will be made aware of any additional entry requirements that are needed to study at an HEI in time to make those arrangements. Providers have a responsibility to ensure that students have completed this research in advance of enrolling onto the Diploma.

7. Quality Assurance

Skills and Education Group Access operates robust quality assurance arrangements for the proposed Diploma and maintains the quality and standards of this recognised Access to HE Diploma. It makes Access to HE awards to students who have met the specified requirements for achievement and performance. Please visit the Skills and Education Group Access website for the Access to HE Provider Handbook or contact the Skills and Education Group Access team on acesstohe@skillsedugroup.co.uk for the relevant documentation and guidance.

7.1 Operation of Moderation Processes

Skills and Education Group Access maintains a system of regular external moderation, conducted by appointed external moderators. External moderator training is scheduled during the year in preparation for their visits to allow Skills and Education Group Access to update external moderators. Where a Provider is new to Access to HE, is running a new Diploma for the first time, or has transferred from another AVA, a “support visit” is also scheduled.

Skills and Education Group Access may arrange for support or supplementary visits in the following situations:

Support visits

- The first run of a new Diploma as a support to the Provider. A member of the Skills and Education Group Access team may also accompany the external moderator.
- When a Provider has transferred from another AVA.

Supplementary visits

- When a Diploma has undergone substantial quality assurance or curriculum development or is in fragile circumstances. This additional visit usually incurs a Quality Intervention fee that is chargeable to the Provider.

Where a Provider offers various start points, an external moderator will arrange a first visit, final moderation and Awards Board at the most appropriate times within the academic year.

7.2 Review of Moderation Guidance to Ensure Continued Currency

Skills and Education Group Access routinely reviews and updates its guidance to ensure its continuing currency. Moderation guidance updates are generated from external moderator visits and final moderation reports, external moderator mandatory training events, and Skills and Education Group Access standardisation events. The requirements of the Access to HE Diploma Specification have been incorporated within moderation guidance.

7.3 Moderation Reports

External moderators report regularly to Skills and Education Group Access on all aspects of course organisation—including registration, content, assessment design and practice (including internal moderation, assessment and grading decisions)—for which they are responsible.

Skills and Education Group Access operates standard procedures for responding to external moderators' reports, including receiving and responding promptly to individual external moderation reports; providing copies of external moderators' reports to appropriate Provider staff; and ensuring that matters raised in reports that require specific action by Providers are brought to Providers' attention, a clear timescale for action is given, and implementation of actions is confirmed.

Skills and Education Group Access uses a risk-rating approach; the outcomes of external moderator visits contribute to risk-ratings for individual Diplomas. Higher level risk-rates are likely to instigate sanctions and Provider Quality Assurance teams are required to address all resulting conditions with some urgency.

Skills and Education Group Access will introduce a Moderation Report that summarises the findings and outcomes for all Diplomas delivered by a Provider. The Provider moderator liaises with Quality contacts and curriculum leaders throughout the academic year.

7.4 Course Monitoring and Review

On a regular (normally annual) basis, Skills and Education Group Access monitors and reviews Access to HE Diplomas delivered by Providers, using two visit reports with associated risk-rates and supplementary visit reports, as appropriate. Skills and Education Group Access also collects and analyses statistical data about Access to HE Diplomas, students and their individual achievement. The moderator reviews Provider policies and compliance related documentation and process across all Access to HE provision for the Centre.

7.5 Standardisation

Skills and Education Group Access takes steps to ensure that equivalent standards and requirements for achievement apply to different Access to HE Diplomas, within the organisation and across different student cohorts, and with reference to QAA's Access to HE Diploma qualification and credit specifications and grading requirements.

Skills and Education Group Access holds annual standardisation events that are mandatory for all Access to HE Providers. Fines are incurred where an Access to

HE Diploma has not been represented at an appropriate event. The agenda for each event is based on recommendations from the Lead Moderator Standardisation Report of the previous year. Study Skills is often a focus, with an emphasis on a different element each year. Grading is also a key feature of all events.

Skills and Education Group Access also expects that Providers hold internal standardisation events. The external moderator is tasked to discuss this activity and outcomes during visits.

7.6 Award of the Access to HE Diploma

Skills and Education Group Access operates standard-specified procedures for the award of Access to HE Diplomas to students that are consistent with the Access to HE Diploma and credit specifications, grading requirements, and assessment regulations. The external moderation process ensures that all external moderator decisions to recommend the award of the Access to HE Diploma are made with confidence that all regulations and specification requirements have been met. The formal Awards Board is made up of appropriate personnel in line with Skills and Education Group Access guidelines, and formal decisions to award credit and the Access to HE Diploma are agreed upon before the Recommendation for the Award of Credit (RAC) is signed by the tutor, the internal moderator and the external moderator for each Diploma. Award Board minutes and copies of the signed RACs are received by Skills and Education Group Access within one working day of convening the Awards Board.

The AVA takes immediate action to record and remedy any errors relating to the award or certification of the Access to HE Diploma. Skills and Education Group Access advises QAA immediately of any major errors in the issuing of Diploma certificates, including providing information on how errors were remedied and how such errors will be avoided in the future. Issues related to the registration and certification of Access to HE students are recorded and, where relevant, may impact on a Provider's overall risk rating.

7.7 Data Systems

Skills and Education Group Access has a dedicated and secure data system for Access to HE. All current Diploma, Provider and student information is maintained, and all student certification is generated from this system.

7.8 Issue and Dispatch of Access to HE Diplomas and Achievement Transcripts

All students who have been awarded the Access to HE Diploma are issued the AVA's Access to HE Diploma certificate, which has a standard format. Skills and Education Group Access operates a service standard that ensures that all unit transcripts and Diploma certificates are forwarded to Providers within 15 working days of the Awards Board. Providers commit to return any unclaimed certificates to the AVA. All certificates are numbered and kept secure. Providers are required to confirm arrangements for secure receipt, storing and onward transmission of student certificates, including unclaimed certificates.

Students will also receive login details of a Digital Certification Website (DC Web) that will enable them to gain access to their Access to HE Diploma results

at any time, and to be able to share them with receiving HEIs or potential employers.

8. Person Authorising Development of the Diploma Specification

I confirm that the Diploma meets QAA's qualification requirements and will be quality-assured in accordance with this Diploma Specification. All Providers delivering this Diploma and external moderators responsible for quality-assuring it will have a copy of this Diploma Specification.

Name: (please print)	Julie Knowles
Signature:	
Date:	16/07/2021
Post held:	Head of Access to HE

This Diploma Specification will be reviewed by the AVA regularly.

Appendix 1 – Units of Assessment

Grading Descriptors

1	Understanding of the Subject	US	5	Communication and Presentation	CP
2	Application of Knowledge	AK	6	Autonomy/Independence	AI
3	Application of Skills	AS	7	Quality (Mandatory)	QU
4	Use of Information	UI			

Access to HE Diploma (Medicine) Units

For every unit included in the table, further information is included in the Unit Specification, including learning outcomes and assessment criteria. All units must be set out using the AVA standard format.

Mandatory Units (45 credits, including 36 graded and 9 ungraded)

Unit Title	Unit Id	Level	CV	Grading
Medicine: Professional Behaviours for Medical Practitioners	QU003680	Three	3	Ungraded
Study Skills: Academic Writing Skills	YHS243	Three	3	Ungraded
Biology (21 graded credits)				
Biology: Cellular Structure and Activity	QU003676	Three	3	127
Biology: Control and Co-ordination	CER059	Three	6	127
Biology: Genetics	CER115	Three	6	127
Biology: Systems Physiology	CER270	Three	6	127
Chemistry (15 graded credits)				
Chemistry: Atoms, Bonds and Structure	CER318	Three	3	127
Chemistry: Enthalpy, Rates and Equilibria	CER456	Three	3	127
Chemistry: Kinetics, Energetics and Acid-Base Equilibria	CER466	Three	3	127
Chemistry: Moles, Equations and Acids	CER471	Three	3	127
Chemistry: Organic Concepts and Hydrocarbons	CER374	Three	3	127
Mathematics: (3 ungraded credits)				
Mathematics: Exploring Mathematics for Medicine	QU003678	Three	3	Ungraded

Maths/Other Sciences (9 graded credits to be achieved from this group)

Unit Title	Unit Id	Level	CV	Grades
Mathematics: Algebra	CER429	Three	6	137
Mathematics: Algebra and Functions	CER313	Three	3	137
Mathematics: Algebra, Logarithms, Statistics and Calculus	YHR987	Three	3	137
Mathematics: Calculus	CER324	Three	3	137
Mathematics: Calculus and Pure Maths	CER325	Three	6	137

Unit Title	Unit Id	Level	CV	Grades
Mathematics: Continuous Probability Distributions	CER443	Three	3	137
Mathematics: Data Handling	CER068	Three	3	137
Mathematics: Exponentials, Logarithms, Trigonometry and Series	CER343	Three	3	137
Mathematics: Further Calculus	CER459	Three	6	137
Mathematics: Further Differentiation	CER111	Three	3	137
Mathematics: Further Integration	CER112	Three	3	137
Mathematics: Further Statistics	CER461	Three	6	137
Mathematics: Further Trigonometry	YHS245	Three	3	137
Mathematics: Numerical Analysis of Statistical Data	CER189	Three	3	137
Mathematics: Numerical Methods and Complex Numbers	CER372	Three	3	137
Mathematics: Vectors and Matrices	CER422	Three	3	137
Mathematics: Vectors and Numerical Methods	QU003499	Three	3	137
Physics: Medical Physics: Radiology and Medical Imaging	YHS236	Three	3	127
Physics: Medical Physics: Radiology and Medical Imaging	QU003820	Three	3	127
Physics: Medical Physics: Waves ECGs and Radiography	CER181	Three	6	127
Physics: Radioactivity in Medicine	CER227	Three	3	127
Physics: Waves and Optics	CER304	Three	3	127

6 credits to be achieved from this group

Unit Title	Unit Id	Level	CV	Grades
Biology: Exploring Defence Against Disease	QU00368 6	Three	3	Ungraded
Biology: Exploring Infection and Immunity	QU00369 0	Three	6	Ungraded
Biology: Exploring Microbiology	QU00368 4	Three	6	Ungraded
Biology: Exploring the Urinary System	QU00368 8	Three	3	Ungraded
Chemistry: Exploring Chemistry and Society	CER568	Three	3	Ungraded
Chemistry: Exploring Organic Compound Analysis	QU00369 4	Three	3	Ungraded
Chemistry: Exploring Organic Compounds Containing Oxygen or Nitrogen	QU00369 2	Three	3	Ungraded
Chemistry: Exploring Redox and Periodicity	QU00370 0	Three	3	Ungraded
Mathematics: Exploring Algebra and Functions	CER574	Three	3	Ungraded
Mathematics: Exploring Calculus and Pure Maths	CER576	Three	6	Ungraded
Mathematics: Exploring Numerical Analysis of Statistical Data	CER614	Three	3	Ungraded

Unit Title	Unit Id	Level	CV	Grades
Mathematics: Exploring Further Techniques for Algebra and Differentiation	QU003710	Three	3	Ungraded
Physics: Exploring Medical Physics: Radiology and Medical Imaging	YHS237	Three	3	Ungraded
Science: Conducting a Science Project	CER578	Three	6	Ungraded

Appendix 2 – Exclusion Rules of Combination

Barred Unit 1	ID 1	CV	Barred Unit 2	ID 2	CV
Mathematics: Algebra	CER429	6	Mathematics: Exploring Algebra and Functions	CER574	3
Mathematics: Calculus	CER324	3	Mathematics: Calculus and Pure Maths	CER325	6
Mathematics: Calculus and Pure Maths	CER325	6	Mathematics: Algebra	CER429	6
Mathematics: Calculus and Pure Maths	CER325	6	Mathematics: Exploring Calculus and Pure Maths	CER576	6
Mathematics: Calculus and Pure Maths	CER325	6	Mathematics: Exponentials, Logarithms, Trigonometry and Series	CER343	3
Mathematics: Continuous Probability Distributions	CER443	3	Mathematics: Further Statistics	CER461	6
Mathematics: Exponentials, Logarithms, Trigonometry and Series	CER343	3	Mathematics: Algebra	CER429	6
Mathematics: Exponentials, Logarithms, Trigonometry and Series	CER343	3	Mathematics: Exploring Calculus and Pure Maths	CER576	6
Mathematics: Further Differentiation	CER111	3	Mathematics: Further Calculus	CER459	6
Mathematics: Further Integration	CER112	3	Mathematics: Further Calculus	CER459	6
Physics: Medical Physics: Radiology and Medical Imaging	YHS236	3	Physics: Medical Physics: Radiology and Medical Imaging	QU003820	3