

Access to HE (Science)

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Diploma Guide



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1. Diploma Background and Aims

Science is a well-established area of business for the Access Validating Agency (AVA). It is consistently one of the most popular choices of Access to HE Diploma after Health-related subjects and providers have been successfully offering Access to HE Science provision for many years. The Access to HE team worked with FE and HE colleagues to develop one AVA Access to HE Diploma in Science that offers a range of cohesive subject areas to support students who wish to progress into Higher Education (HE) programmes, both within provider's own centres and a range of HE institutes locally, regionally and nationally.

The AVA had the support of providers to develop the new Access to HE Diploma (Science) with the Access to HE Diploma Specification to reflect the needs of all providers wishing to adopt the diploma.

The aims of the Access to HE Diploma (Science) are to:

- prepare students who are returning to education for progression to Higher Education and further training in Science related vocational or occupational areas
- help students develop the skills and knowledge they need to achieve on their chosen HE course or career pathway
- familiarise students with the teaching and learning methodologies and assessment strategies found in Higher Education Institutions (HEIs)
- help students to gain confidence in their abilities, to review and monitor their own progress and to become independent students
- develop students' research, planning, analytical and evaluation skills
- enable students to make informed choices about their future progression routes
- develop specific Science skills and knowledge to enhance employment prospects
- help students to understand the role of Science in the world at large

2. Course Recognition

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

Skills and Education Group has worked with curriculum specialists and business development managers to co-ordinate and oversee the development of the Access to HE Diploma (Science). This has involved meetings to agree curriculum content, level, grading descriptors and general rules of combination. A pre-determined timetable of events was drawn up where providers were invited to meetings, or to contribute electronically if unable to attend these events, to meet the agreed deadlines.

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.

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

Skills and Education Group 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 (Science) 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).

4. Target Groups

Skills and Education Group has developed the Access to HE Diploma (Science) 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 Science. This Diploma 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 Science before moving on to higher level study in the UK.

5. Intended Progression Routes

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

- Aeronautical and Aerospace Engineering
- Aerospace Engineering
- Architectural Technology
- Chemistry
- Civil Engineering
- Civil & Structural Engineering
- Clinical Technology
- Computer Science
- Diagnostic Radiography

- Masters in Biomedical Science
- Mathematics and Physics
- Mechanical Engineering
- Medicinal and Pharmaceutical Chemistry
- Music Technology
- Nanotechnology
- Nursing
- Nutrition
- Nutrition & Public Health

- Diagnostic Radiography and Imaging
- Dietetics
- Electrical Engineering
- Electronic and Electrical Engineering
- Environmental Biology
- Environmental Chemistry
- Environmental Science
- Forensics and Analytical Science with Industrial Experience
- Pharmaceutical & Chemical Science
- Pharmacy
- Physics
- Physics & Planetary Science
- Physics, Particle Physics & Cosmology
- Physiotherapy
- Radiography
- Science
- Veterinary Science.

The design of Diplomas must be appropriate to the primary purpose of Access to HE courses, which is to provide higher education progression opportunities for adults who, because of social, educational or individual circumstances, may have achieved few, if any, prior qualifications.

The award of a Diploma does not provide guaranteed entry to UK higher education programmes.

5.1 Entry Requirements

There are no formal entry requirements for this diploma, however based on the level of study it is suggested that students have the following qualifications upon entry:

English – Level 2 Functional Skills, Grade C/4 GCSE

Mathematics – Level 2 Functional Skills, Grade C/4 GCSE

Many HEI's have the above Level 2 requirements in addition to Level 3 qualification requirements.

Students should always check the entry requirements of the higher education course they intend to apply to before enrolling on an Access to HE diploma.

6. Rules of Combination

6.1 Required achievements for the Access to HE Diploma

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 (Science) | |
|---|----|
| Credit Value of the Diploma: | 60 |
| Students must achieve all the units within the 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 units.

Students can achieve up to a maximum of 9 credits at Level 2 and 21 from Level 3 through credit transfer and the award of credit through the recognition of prior learning.

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

- a) registered and certificated for units to a maximum value of 60 credits
- b) registered for units to the value of 60 credits no later than 84 days from the start date of their Access to HE course, or before the student makes a formal application to a higher education course through UCAS or any other application process, whichever date occurs first.

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'.

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'.

The following assessment methods could be used, but not limited to:

- Essays
- Presentations
- Academic posters
- Case Studies
- Blogs and Vlogs
- Self-help style leaflets/journal articles
- Animated Biteables/Doodly's or some such video software packages
- Reports
- Examinations
- Time constrained activities such as open book tests

6.4 Credit Transfer and Recognition of Prior Learning

Credit Transfer provides a means by which students who have already achieved units of an Access to HE Diploma, either with the same centre/AVA or another, can transfer their credits and grades, if applicable, to a new diploma registration.

The Recognition of Prior Learning (RPL) provides a means by which students who have already achieved some of the requirements for the award of the Access to

HE Diploma, through some means other than study on an Access to HE course, can be awarded the Access to HE Diploma without necessarily being required to undertake units for which equivalent achievement has already been demonstrated.

No more than 30 credits required for the award of the Access to HE Diploma may be awarded through Credit Transfer or RPL.

Students registering onto the Access to HE Diploma (Science) may have undertaken a Level Two 'pre-Access' course. It is expected that providers will have offered students written guidance on Skills and Education Group's application process for RPL of these credits or other credit or work achievement that may allow exemption from some units within the Access to HE Diploma. Students must be advised that RPL cannot be graded.

6.5 Successful Completion Criteria

Skills and Education Group expects that any successful completion criteria that is in addition to the Diploma's rules of combination do not make demands which impacts on achievement.

6.6 Special Requirements

There are no special requirements needed for this Diploma although laboratory facilities, computing environments equipped with PCs and specialist software appropriate to the course may be recommended.

6.7 Supporting Students

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

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

The Access to Fair Assessment Policy and Procedure section in the Skills and Education Group 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 (Science), but may also do this through the processes of credit transfer and RPL.

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 (Science). 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 (Science).

Skills and Education Group expects that where the Access to HE Diploma (Science) is intended to lead to further study for a professional qualification, students must be made aware of any additional entry requirements that are needed to study at a Higher Education Institution.

7. Quality Assurance

Skills and Education Group operates robust quality assurance arrangements for the proposed Diploma and maintains the quality and standards of this recognised Access to HE Diploma. Skills and Education Group makes Access to HE awards to students who have met the specified requirements for achievement and performance. Please visit the Skills and Education Group website for the Access to HE Provider Handbook.

7.1 Operation of moderation processes

Skills and Education Group 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 to update external moderators. Where a provider is new to Access to HE, or 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 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 Skills and Education Group's Access to HE 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 chargeable Quality Intervention fee.

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

7.2 Review of moderation guidance to ensure continued currency

Skills and Education Group 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 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 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 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/centre 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 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 will introduce a Centre Moderation Report that summarises the findings and outcomes for all Diplomas delivered by a Centre.

7.4 Course Monitoring and Review

Skills and Education Group monitors and reviews Access to HE Diplomas delivered by providers on a regular (normally annual) basis. Two visit reports with associated risk rates and supplementary visit reports as appropriate are used to review provision. Skills and Education Group collects and analyses statistical data about Access to HE Diplomas, students and their individual achievement.

7.5 Standardisation

Skills and Education Group takes steps to ensure that equivalent standards and requirements for achievement apply on different Access to HE Diplomas, within Skills and Education Group and across different student cohorts, with reference to

QAA's Access to HE Diploma qualification and credit specifications and grading requirements.

Skills and Education Group 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 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 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 guidelines and formal decisions to award credit and the Access to HE Diploma are agreed 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 within one working day of 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 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.

7.7 Data Systems

Skills and Education Group 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 operates a service standard that ensures that all unit transcripts and Diploma certificates are forwarded on 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.

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) | Jennie Lawson |
|----------------------|------------------------------|
| Signature: | Jennie Lauson |
| Date: | 2 nd October 2023 |
| Post held: | Director of Access to HE |

This agreement will be reviewed by the AVA regularly.

Appendix 1 - Units of Assessment

Grading Descriptors

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

Access to HE Diploma (Science) 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 Unit (3 credits must be selected from this group)

| Unit | Unit ID | Level | CV |
|---------------------------------------|---------|-------|----|
| Study Skills: Academic Writing Skills | YHS243 | Three | 3 |

Optional Units

Optional Graded Units (45 credits must be selected from this group)

| Unit Title | Unit ID | Level | CV |
|---|---------|-------|----|
| Biology: Biochemical Molecules | YHS248 | Three | 3 |
| Biology: Biodiversity | YHS250 | Three | 3 |
| Biology: Biotechnology | CER021 | Three | 3 |
| Biology: Body Structure and Function | AAA001 | Three | 9 |
| Biology: Cell Biology | CER030 | Three | 6 |
| Biology: Cell Differentiation and Tissues | CER031 | Three | 3 |
| Biology: Cells | CER032 | Three | 3 |
| Biology: Cellular Transport | YHS396 | Three | 3 |
| Biology: Communicable Diseases | CER042 | Three | 3 |
| Biology: Control and Co-ordination | CER059 | Three | 6 |
| Biology: Co-ordination | CER060 | Three | 3 |
| Biology: Defence against Disease | CER071 | Three | 3 |
| Biology: Digestion and Nutrition | YHS322 | Three | 3 |
| Biology: DNA and Protein Synthesis | YHS252 | Three | 3 |
| Biology: Endocrine System | YHR994 | Three | 3 |
| Biology: Enzymes | CER094 | Three | 3 |
| Biology: Genetic Inheritance | CER114 | Three | 3 |
| Biology: Genetics | YHS404 | Three | 6 |
| Biology: Genetics and Evolution | CER116 | Three | 6 |
| Biology: Human Cardiovascular System | CER133 | Three | 3 |
| Biology: Human Circulation and Gas Exchange | CER134 | Three | 3 |
| Biology: Human Endocrine System | YHS321 | Three | 3 |
| Biology: Human Gas Exchange System | CER135 | Three | 3 |
| Biology: Human Growth and Development | YHS406 | Three | 6 |
| Biology: Human Musculoskeletal System | CER137 | Three | 3 |
| Biology: Human Physiology | CER138 | Three | 6 |
| Biology: Human Urinary System | AAA006 | Three | 3 |
| Biology: Infection and Immunity | CER146 | Three | 6 |
| Biology: Microbiology | CER183 | Three | 6 |
| Biology: Molecules of Life | CER184 | Three | 6 |



| Unit Title | Unit ID | Level | CV |
|---|---------|-------|----|
| Biology: Nervous System | CER186 | Three | 3 |
| Biology: Non-Infectious Disease | CER187 | Three | 3 |
| Biology: Nutrition and Digestion | AAA014 | Three | 3 |
| Biology: Pathogens and Disease | CER198 | Three | 9 |
| Biology: Photosynthesis | CER481 | Three | 3 |
| Biology: Practical Biology Skills | CER208 | Three | 3 |
| Biology: Respiration in Cells | YHS411 | Three | 3 |
| Biology: Systems Physiology | CER270 | Three | 6 |
| Biology: The Cellular Factory | CER274 | Three | 3 |
| Biology: Urinary System | YHS320 | Three | 3 |
| Chemistry: Analytical Chemistry | CER430 | Three | 6 |
| Chemistry: Atoms, Bonds and Structure | CER318 | Three | 3 |
| Chemistry: Calculations and Patterns in Chemical Reactions | CER436 | Three | 3 |
| Chemistry: Chemistry and Society | CER326 | Three | 3 |
| Chemistry: Chemistry for Biologists | CER438 | Three | 6 |
| Chemistry: Chemistry of Drugs and Medicines | CER439 | Three | 6 |
| Chemistry: Energy, Equilibria and pH | CER453 | Three | 6 |
| Chemistry: Enthalpy, Rates and Equilibria | CER456 | Three | 3 |
| Chemistry: Enthalpy, Rates and Redox | CER457 | Three | 6 |
| Chemistry: Kinetics, Energetics and Acid-Base Equilibria | CER466 | Three | 3 |
| Chemistry: Kinetics, Energetics, Equilibria & Acid-Base Equilibria | NEW | Three | 6 |
| Chemistry: Moles, Equations and Acids | CER471 | Three | 3 |
| Chemistry: Organic Chemistry | YHS418 | Three | 6 |
| Chemistry: Organic Compound Analysis | CER478 | Three | 3 |
| Chemistry: Organic Compounds Containing Oxygen or Nitrogen | CER373 | Three | 3 |
| Chemistry: Organic Concepts and Hydrocarbons | CER374 | Three | 3 |
| Chemistry: Practical Chemistry Skills | YHS246 | Three | 3 |
| Chemistry: Redox and Periodicity | CER487 | Three | 3 |
| Chemistry: Transition Elements and Electrochemistry | CER499 | Three | 3 |
| Computing: Application of Systems and Communications Technology | CER315 | Three | 3 |
| Computing: Business Information Technology | CER323 | Three | 6 |
| Computing: Components of Computer Systems | CER327 | Three | 6 |
| Computing: Computational Methods | CER328 | Three | 3 |
| Computing: Computer Architecture | CER329 | Three | 3 |
| Computing: Database Development | YHS229 | Three | 6 |
| Computing: Digital Imaging and Video Production | CER335 | Three | 6 |
| Computing: Emerging Technologies | CER339 | Three | 3 |
| Computing: IT in Organisations | CER152 | Three | 3 |
| Computing: Multimedia Authoring | CER369 | Three | 6 |
| Computing: Multimedia Products | CER370 | Three | 9 |
| Computing: Networks | CER371 | Three | 3 |
| Computing: Programming Constructs | CER385 | Three | 6 |
| Computing: Project Development | CER386 | Three | 6 |
| Computing, Coffuere Development | CER402 | Three | 6 |
| Computing: Software Development | CLINHUZ | | - |
| Computing: Spreadsheet Modelling Computing: Systems Analysis | CER260 | Three | 6 |



| Unit Title | Unit ID | Level | CV |
|---|--------------------------------------|-------------------------|-------------|
| Computing: Web Page Design and Production | CER424 | Three | 3 |
| Computing: Web Site Design and Production | YHS231 | Three | 6 |
| Economics: Debates, Theories and Instructions | CER334 | Three | 3 |
| Economics: Tax, Inflation and the Balance of Payments | CER410 | Three | 3 |
| Engineering: AC Theory | CER427 | Three | 9 |
| Engineering: Aerospace Engineering | CER428 | Three | 3 |
| Engineering: Automotive and Aerospace Engineering | CER432 | Three | 6 |
| Engineering: Automotive Engineering | CER433 | Three | 3 |
| Engineering: Control Systems | CER444 | Three | 3 |
| Engineering: Design Project | CER445 | Three | 3 |
| Engineering: Electric Motors | CER449 | Three | 3 |
| Engineering: Electronics | CER452 | Three | 6 |
| Engineering: Heat Transfer and Chemical Reactors | CER463 | Three | 6 |
| Engineering: Materials Engineering | CER467 | Three | 3 |
| Engineering: Solid Mechanics | CER494 | Three | 6 |
| Environmental Science: Atmospheric Pollution and Sunlight | CER431 | Three | 3 |
| Environmental Science: Conservation Management | CER441 | Three | 3 |
| Environmental Science: Ecological Field Techniques | CER446 | Three | 3 |
| Environmental Science: Ecology and the Environment | CER336 | Three | 6 |
| Environmental Science: Ecology, Ecosystems and Conservation | CER447 | Three | 6 |
| Environmental Science: Energy Resources | CER454 | Three | 3 |
| Environmental Science: Soils | CER493 | Three | 3 |
| Environmental Science: Water Pollution | CER502 | Three | 3 |
| Environmental Science: Water Resources | CER503 | Three | 3 |
| Health Science: Stress and Eating Disorders | CER265 | Three | 3 |
| Mathematics: Algebra | CER429 | Three | 6 |
| Mathematics: Algebra and Functions | CER313 | Three | 3 |
| Mathematics: Algebra, Logarithms, Statistics and Calculus | YHR987 | Three | 3 |
| Mathematics: Calculus | CER324 | Three | 3 |
| Mathematics: Calculus and Pure Maths | CER325 | Three | 6 |
| Mathematics: Continuous Probability Distributions | CER443 | Three | 3 |
| Mathematics: Coplanar Forces and Moments | CER330 | Three | 3 |
| Mathematics: Data Handling | CER068 | Three | 3 |
| Mathematics: Exponentials, Logarithms, Trigonometry and Series | CER343 | Three | 3 |
| Mathematics: Further Calculus | CER459 | Three | 6 |
| · · · · · · · · · · · · · · · · · · · | | Three | 3 |
| Mathematics: Further Differentiation | CER111 | | |
| | CER111 CER112 | Three | 3 |
| Mathematics: Further Differentiation Mathematics: Further Integration Mathematics: Further Mechanics | CER112 | Three Three | |
| Mathematics: Further Integration Mathematics: Further Mechanics | CER112 CER460 | Three | 3 6 6 |
| Mathematics: Further Integration Mathematics: Further Mechanics Mathematics: Further Statistics Mathematics: Further Techniques for Algebra and | CER112 | | 6 |
| Mathematics: Further IntegrationMathematics: Further MechanicsMathematics: Further StatisticsMathematics: Further Techniques for Algebra andDifferentiation | CER112 CER460 CER461 YHS468 | Three Three Three | 6 6 3 |
| Mathematics: Further Integration Mathematics: Further Mechanics Mathematics: Further Statistics Mathematics: Further Techniques for Algebra and | CER112 CER460 CER461 | Three Three | 6 6 |



| Unit Title | Unit ID | Level | CV |
|--|---------|-------|----|
| Mathematics: Momentum and Energy | CER472 | Three | 3 |
| Mathematics: Numerical Analysis of Statistical Data | CER189 | Three | 3 |
| Mathematics: Numerical Methods and Complex Numbers | CER372 | Three | 3 |
| Mathematics: Statistics | CER262 | Three | 6 |
| Mathematics: Variable Acceleration, Circular Motion and Simple Harmonic Motion | CER506 | Three | 3 |
| Mathematics: Vectors and Matrices | CER422 | Three | 3 |
| Mathematics: Vectors and Numerical Methods | YHS469 | Three | 3 |
| Physics: Electric Circuits | CER448 | Three | 3 |
| Physics: Electricity and Electromagnetism | CER338 | Three | 6 |
| Physics: Electricity, Induction and Electromagnetism | CER450 | Three | 9 |
| Physics: Electromagnetism | YHS238 | Three | 3 |
| Physics: Energy Transfer and Fluid Mechanics | CER455 | Three | 3 |
| Physics: Medical Physics: Radiology and Medical Imaging | YHS482 | Three | 3 |
| Physics: Medical Physics: Waves ECGs and Radiography | CER181 | Three | 6 |
| Physics: Newtonian and Rotational Dynamics | CER473 | Three | 6 |
| Physics: Newtonian Dynamics | CER474 | Three | 3 |
| Physics: Nuclear Physics | CER475 | Three | 3 |
| Physics: Particle Physics | CER479 | Three | 3 |
| Physics: Particle Physics and Nuclear Power | CER480 | Three | 6 |
| Physics: Radioactivity in Medicine | CER227 | Three | 3 |
| Physics: Rotational Dynamics | CER491 | Three | 3 |
| Physics: Thermodynamics | CER418 | Three | 3 |
| Physics: Thermodynamics and Fluid Mechanics | CER498 | Three | 6 |
| Physics: Waves and Optics | CER304 | Three | 3 |
| Psychology: Aggression | YHR986 | Three | 3 |
| Psychology: Biopsychology: Behaviour and Drugs | YHS240 | Three | 3 |
| Psychology: Biopsychology: Behaviour and the Brain | CER020 | Three | 3 |
| Psychology: Child Development | YHS241 | Three | 3 |
| Psychology: Child Development Early Socialisation | YHS242 | Three | 3 |
| Psychology: Cognitive Psychology | CER041 | Three | 3 |
| Psychology: Defining Abnormality and Understanding Psychological Disorders | CER224 | Three | 6 |
| Psychology: Developmental Psychology | CER076 | Three | 6 |
| Psychology: Evolutionary Psychology | CER342 | Three | 3 |
| Psychology: Health Psychology | CER126 | Three | 6 |
| Psychology: Intelligence | CER148 | Three | 3 |
| Psychology: Personality Theories | CER201 | Three | 3 |
| Psychology: Perspectives in Psychology | CER202 | Three | 3 |
| Psychology: Psychological Disorders and Therapeutic Strategies | CER391 | Three | 3 |
| Psychology: Psychological Profiling | CER225 | Three | 3 |
| Psychology: Research Skills | CER235 | Three | 3 |
| Psychology: Social Interaction | CER400 | Three | 3 |
| Psychology: Statistics for Psychology | CER263 | Three | 3 |
| Science: Data Collection and Analysis | CER067 | Three | 3 |
| Science: Practical Science Skills | CER210 | Three | 3 |



| Unit Title | Unit ID | Level | CV |
|--|---------|-------|----|
| Social Policy: Social Policy and the British Welfare State | CER249 | Three | 6 |
| Sociology: Globalisation and Development | YHS312 | Three | 6 |

Optional Ungraded units (12 credits must be selected from this Group)

| Biology:Exploring Biochemical MoleculesUNR 1DEventCBiology:Exploring CellsCCR563Three3Biology:Exploring Cellular TransportYHS299Three3Biology:Exploring Nutrition and DigestionYHS402Three3Biology:Exploring Nutrition and DigestionYHS402Three3Biology:Exploring Nutrition and DigestionYHS402Three3Biology:Exploring Actical Biology SkillsCCR566Three3Chemistry:Chemistry: Chemical ReactionsCCR437Three3Chemistry:Exploring Atoms, Bonds and StructureCCR568Three3Chemistry:Exploring Chemistry and SocietyCCR485Two3English:ReadingCCR495Two3English:ReadingCCR505Two3English:Speaking and ListeningCCR573Three3ManagementCCR574Three33Mathematics:Exploring Calculus and Pure MathsCCR576Three3Mathematics:Exploring Numer and GraphicalCCR476Two3RepresentationCCR571Three33Mathematics:Exploring Numerical Analysis of StatisticalCER48Two6Mathematics:Kaploring Numerical Analysis of StatisticalCER571Three3Mathematics:Mathematics: Calcular physics: Radiology and MedicalYHS237Three3< | Unit Title | Unit ID | | CV |
|---|--|---------|-------|----|
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| Physics: Exploring Particle PhysicsCER571Three3Physics: Exploring Waves and OpticsCER572Three3Psychology: Exploring Social InteractionCER595Three3Science: Conducting a Science ProjectCER578Three6Science: Exploring Laboratory Skills and Experimental DesignCER579Three3Science: Life Processes and Living ThingsCER162Two3Science: Materials and their PropertiesCER077Three6Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: DatabasesCER070Three3Study Skills: Group ProcessesCER118Three3Study Skills: Information ToolkitCER132Three6Study Skills: Information Literacy SkillsCER132Three3Study Skills: Information Literacy SkillsCER147Three3Study Skills: Information Literacy SkillsCER147Three3Study Skills: Information Literacy SkillsCER150Three3 | | YHS237 | Three | 3 |
| Physics: Exploring Waves and OpticsCER572Three3Psychology: Exploring Social InteractionCER595Three3Science: Conducting a Science ProjectCER578Three6Science: Exploring Laboratory Skills and Experimental DesignCER579Three3Science: Life Processes and Living ThingsCER162Two3Science: Materials and their PropertiesCER171Two3Study Skills: Advanced Information TechnologyCER007Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Bran Techniques and PracticeCER099Three3Study Skills: Information Literacy SkillsCER132Three6Study Skills: Interview Skills and Group PresentationsCER150Three3 | | CFR571 | Three | 3 |
| Psychology: Exploring Social InteractionCER595Three3Science: Conducting a Science ProjectCER578Three6Science: Exploring Laboratory Skills and Experimental DesignCER579Three3Science: Life Processes and Living ThingsCER162Two3Science: Materials and their PropertiesCER171Two3Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: DatabasesCER070Three3Study Skills: Bram Techniques and PracticeCER099Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Science: Conducting a Science ProjectCER578Three6Science: Exploring Laboratory Skills and Experimental DesignCER579Three3Science: Life Processes and Living ThingsCER162Two3Science: Materials and their PropertiesCER171Two3Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Science: Exploring Laboratory Skills and Experimental DesignCER579Three3Science: Life Processes and Living ThingsCER162Two3Science: Materials and their PropertiesCER171Two3Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Bram Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| DesignCERS79Inree3Science: Life Processes and Living ThingsCER162Two3Science: Materials and their PropertiesCER171Two3Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | CERS70 | THICC | 0 |
| Science: Life Processes and Living ThingsCER162Two3Science: Materials and their PropertiesCER171Two3Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | CER579 | Three | 3 |
| Science: Materials and their PropertiesCER171Two3Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | CER162 | Two | r |
| Study Skills: Advanced Information TechnologyCER007Three6Study Skills: Communication SkillsCER045Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Study Skills: Communication SkillsCER045Three6Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | _ |
| Study Skills: CommunicationsCER046Three3Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Study Skills: DatabasesCER070Three3Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Study Skills: Exam Techniques and PracticeCER099Three3Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Study Skills: Group ProcessesCER118Three3Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Study Skills: Higher Education ToolkitCER132Three6Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Study Skills: Information Literacy SkillsCER147Three3Study Skills: Interview Skills and Group PresentationsCER150Three3 | | | | |
| Study Skills: Interview Skills and Group Presentations CER150 Three 3 | | | | |
| | | | | |
| Study Skills: Numeracy CER188 Three 3 | Study Skills: Interview Skills and Group Presentations | CER150 | Three | 3 |
| | Study Skills: Numeracy | CER188 | Three | 3 |

Skills & Education Group Access

| Unit Title | Unit ID | Level | CV |
|---|---------|-------|----|
| Study Skills: Organisation and Evaluation of Study | CER194 | Two | 3 |
| Study Skills: Organisation and Evaluation of Study | CER195 | Three | 3 |
| Study Skills: Presentation Skills | CER215 | Three | 3 |
| Study Skills: Reading and Note making | CER228 | Three | 3 |
| Study Skills: Reflective Practice | CER230 | Three | 3 |
| Study Skills: Research Skills | CER236 | Three | 3 |
| Study Skills: Research Skills: Project | CER238 | Three | 6 |
| Study Skills: Researching and Understanding Opportunities in Higher Education | CER240 | Three | 3 |
| Study Skills: Spreadsheet Software | CER261 | Three | 3 |
| Study Skills: Use of Information and Communication Technology | CER293 | Three | 3 |
| Study Skills: Using IT for Study | CER296 | Two | 3 |
| Study Skills: Using Word Processing Software | CER613 | Two | 3 |
| Study Skills: Word Processing | CER306 | Three | 3 |
| Study Skills: Work Experience | CER307 | Three | 6 |

Appendix 2 - Inclusion and exclusion rules of combination

| Barred Unit 1 | ID 1 | CV | Barred Unit 2 | ID2 | CV |
|--|--------|----|--|--------|----|
| Biology: Biochemical Molecules | YHS248 | 3 | Biology: Exploring Biochemical Molecules | YHS249 | 3 |
| Biology: Body Structure and Function | AAA001 | 9 | Biology: Human Cardiovascular System | CER133 | 3 |
| Biology: Body Structure and Function | AAA001 | 9 | Biology: Human Circulation and Gas Exchange | CER134 | 3 |
| Biology: Cell Biology | CER030 | 6 | Biology: Cells | CER032 | 3 |
| Biology: Cell Biology | CER030 | 6 | Biology: Cellular Transport | YHS396 | 3 |
| Biology: Cell Biology | CER030 | 6 | Biology: Exploring Cellular Transport | YHS256 | 3 |
| Biology: Cell Biology | CER030 | 6 | Biology: The Cellular Factory | CER274 | 3 |
| Biology: Cell Differentiation and Tissues | CER031 | 3 | Biology: Fundamentals of Biological Systems | CER109 | 3 |
| Biology: Cells | CER032 | 3 | Biology: Exploring Cells | CER563 | 3 |
| Biology: Cells | CER032 | 3 | Biology: Fundamentals of Biological Systems | CER109 | 3 |
| Biology: Cells | CER032 | 3 | Biology: Genetics | YHS404 | 6 |
| Biology: Cells | CER032 | 3 | Biology: Genetics and Evolution | CER116 | 6 |
| Biology: Cells | CER032 | 3 | Biology: The Cellular Factory | CER274 | 3 |
| Biology: Communicable Diseases | CER042 | 3 | Biology: Infection and Immunity | CER146 | 6 |
| Biology: Control and Co- ordination | CER059 | 6 | Biology: Co-ordination | CER060 | 3 |
| Biology: Control and Co- ordination | CER059 | 6 | Biology: Human Musculoskeletal System | CER137 | 3 |
| Biology: Control and Co- ordination | CER059 | 6 | Biology: Nervous System | CER186 | 3 |
| Biology: Co-ordination | CER060 | 3 | Biology: Nervous System | CER186 | 3 |
| Biology: Defence against Disease | CER071 | 3 | Biology: Infection and Immunity | CER146 | 6 |



| Barred Unit 1 | ID 1 | CV | Barred Unit 2 | ID2 | CV |
|--|--------|----|--|--------|----|
| Biology: Defence against Disease | CER071 | 3 | Biology: Pathogens and Disease | CER198 | 9 |
| Biology: Digestion and Nutrition | YHS322 | 3 | Biology: Exploring Nutrition and Digestion | YHS402 | 3 |
| Biology: DNA and Protein Synthesis | YHS252 | 3 | Biology: Genetics | YHS404 | 6 |
| Biology: Endocrine System | YHR994 | 3 | Biology: Human Endocrine System | YHS321 | 3 |
| Biology: Exploring Cells | CER563 | 3 | Biology: Genetics | YHS404 | 6 |
| Biology: Exploring Cellular Transport | YHS256 | 3 | Biology: Cellular Transport | YHS396 | 3 |
| Biology: Exploring Practical Biology Skills | CER566 | 3 | Science: Exploring Laboratory Skills and Experimental Design | CER579 | 3 |
| Biology: Fundamentals of Biological Systems | CER109 | 3 | Biology: Exploring Cells | CER563 | 3 |
| Biology: Genetic Inheritance | CER114 | 3 | Biology: Genetics | YHS404 | 6 |
| Biology: Genetic Inheritance | CER114 | 3 | Biology: Genetics and Evolution | CER116 | 6 |
| Biology: Genetics and Evolution | CER116 | 6 | Biology: Genetics | YHS404 | 6 |
| Biology: Human Cardiovascular System | CER133 | 3 | Biology: Human Circulation and Gas Exchange | CER134 | 3 |
| Biology: Human Circulation and Gas Exchange | CER134 | 3 | Biology: Human Gas Exchange System | CER135 | 3 |
| Biology: Human Circulation and Gas Exchange | CER134 | 3 | Biology: Systems Physiology | CER270 | 6 |
| Biology: Human Urinary System | AAA006 | 3 | Biology: Urinary System | YHS320 | 3 |
| Biology: Molecules of Life | CER184 | 6 | Biology: Photosynthesis | CER481 | 3 |
| Biology: Molecules of Life | CER184 | 6 | Biology: Respiration in Cells | YHS411 | 3 |
| Biology: Non-Infectious Disease | CER187 | 3 | Biology: Pathogens and Disease | CER198 | 9 |
| Biology: Nutrition and Digestion | AAA014 | 3 | Biology: Digestion and Nutrition | YHS322 | 3 |
| Biology: Nutrition and Digestion | AAA014 | 3 | Biology: Exploring Nutrition and Digestion | YHS402 | 3 |
| Biology: Nutrition and Digestion | AAA014 | 3 | Biology: Systems Physiology | CER270 | 6 |
| Biology: Practical Biology Skills | CER208 | 3 | Biology: Exploring Practical Biology Skills | CER566 | 3 |
| Biology: Practical Biology Skills | CER208 | 3 | Science: Exploring Laboratory Skills and Experimental Design | CER579 | 3 |
| Biology: Practical Biology Skills | CER208 | 3 | Science: Practical Science Skills | CER210 | 3 |
| Biology: The Cellular Factory | CER274 | 3 | Biology: Cellular Transport | YHS396 | 3 |
| Biology: The Cellular Factory | CER274 | 3 | Biology: Exploring Cells | CER563 | 3 |



| Barred Unit 1 | ID 1 | CV | Barred Unit 2 | ID2 | CV |
|---|----------|----------|--|---------|----|
| Biology: The Cellular | CER274 | 3 | Biology: Exploring Cellular | YHS256 | 3 |
| Factory | | - | Transport | | - |
| Biology: The Cellular | CER274 | 3 | Biology: Genetics | YHS404 | 6 |
| Factory Chemistry: Analytical | | | Chemistry: Organic | | |
| Chemistry | CER430 | 6 | Compound Analysis | CER478 | 3 |
| Chemistry: Atoms, Bonds | | _ | Chemistry: Chemistry for | | |
| and Structure | CER318 | 3 | Biologists | CER438 | 6 |
| Chemistry: Atoms, Bonds | CER318 | 3 | Chemistry: Exploring Atoms, | CER567 | 3 |
| and Structure | CERSIO | 3 | Bonds and Structure | CER307 | 5 |
| Chemistry: Chemistry and | CER326 | 3 | Chemistry: Exploring | CER568 | 3 |
| Society | CLINDZO | 5 | Chemistry and Society | CERSOO | 5 |
| Chemistry: Chemistry for | CER438 | 6 | Chemistry: Exploring Atoms, | CER567 | 3 |
| Biologists Chemistry: Energy, Equilibria | | | Bonds and Structure Chemistry: Enthalpy, Rates and | | |
| and pH | CER453 | 6 | Equilibria | CER456 | 3 |
| Chemistry: Energy, Equilibria | 000462 | 6 | Chemistry: Kinetics, Energetics | | 2 |
| and pH | CER453 | 0 | and Acid-Base Equilibria | CER466 | 3 |
| Chemistry: Kinetics, | | | Chemistry: Energy, Equilibria | 050452 | ~ |
| Energetics, Equilibria & Acid- Base Equilibria | NEW | 6 | and pH | CER453 | 6 |
| Chemistry: Kinetics, | | | | | |
| Energetics, Equilibria & Acid- | NEW | 6 | Chemistry: Enthalpy, Rates and Redox | CER457 | 6 |
| Base Equilibria | | | | | |
| Chemistry: Enthalpy, Rates and Equilibria | CER456 | 3 | Chemistry: Enthalpy, Rates and Redox | CER457 | 6 |
| Chemistry: Organic Concepts | | | | | |
| and Hydrocarbons | CER374 | 3 | Chemistry: Organic Chemistry | YHS418 | 6 |
| Computing: Digital Imaging | CER335 | 6 | Computing: Multimedia | CER370 | 9 |
| and Video Production | CLKJJJ | 0 | Products | CLKJ70 | 9 |
| Computing: Multimedia Authoring | CER369 | 6 | Computing: Multimedia Products | CER370 | 9 |
| Engineering: Aerospace | | | Engineering: Automotive and | | |
| Engineering | CER428 | 3 | Aerospace Engineering | CER432 | 6 |
| Engineering: Automotive and | CER432 | 6 | Engineering: Automotive | CER433 | 3 |
| Aerospace Engineering | CLR452 | 0 | Engineering | CLR433 | 5 |
| Engineering: Electronics | CER452 | 6 | Engineering: Exploring | CER601 | 6 |
| | | | Electronics Environmental Science: | | |
| Environmental Science: | CER441 | 3 | Exploring Conservation | CER573 | 3 |
| Conservation Management | 02.11.12 | | Management | 0 | - |
| Mathematics: Algebra | CER429 | 6 | Mathematics: Exploring Algebra | CER574 | 3 |
| | CLINH29 | 0 | and Functions | CLINJ | 5 |
| Mathematics: Calculus | CER324 | 3 | Mathematics: Calculus and Pure | CER325 | 6 |
| | | | Maths Mathematics: Exploring Calculus | | |
| Mathematics: Calculus | CER324 | 3 | and Pure Maths | CER576 | 6 |
| Mathematics: Calculus and | CEDOOE | 6 | | CED 420 | C |
| Pure Maths | CER325 | 6 | Mathematics: Algebra | CER429 | 6 |
| Mathematics: Calculus and | CER325 | 6 | Mathematics: Exploring Calculus | CER576 | 6 |
| Pure Maths | | <u> </u> | and Pure Maths | | _ |
| Mathematics: Calculus and | CER325 | 6 | Mathematics: Exponentials, Logarithms, Trigonometry and | CER343 | 3 |
| Pure Maths | | ľ | Series | | |



| Barred Unit 1 | ID 1 | CV | Barred Unit 2 | ID2 | CV |
|--|--------|----|--|--------|----|
| Mathematics: Continuous Probability Distributions | CER443 | 3 | Mathematics: Further Statistics | CER461 | 6 |
| Mathematics: Coplanar Forces and Moments | CER330 | 3 | Mathematics: Mechanics | CER470 | 6 |
| Mathematics: Data Handling | CER068 | 3 | Psychology: Statistics for Psychology | CER263 | 3 |
| 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 |
| Mathematics: Further Mechanics | CER460 | 6 | Mathematics: Exploring Momentum and Energy | CER577 | 3 |
| Mathematics: Further Mechanics | CER460 | 6 | Mathematics: Momentum and Energy | CER472 | 3 |
| Mathematics: Further Mechanics | CER460 | 6 | Mathematics: Variable Acceleration, Circular Motion and Simple Harmonic Motion | CER506 | 3 |
| Mathematics: Kinematics | CER465 | 3 | Mathematics: Mechanics | CER470 | 6 |
| Mathematics: Mathematics for Nursing and Midwifery | CER468 | 6 | Mathematics: Exploring Number and Graphical Representation | CER476 | 3 |
| Mathematics: Momentum and Energy | CER472 | 3 | Mathematics: Exploring Momentum and Energy | CER577 | 3 |
| Mathematics: Numerical Analysis of Statistical Data | CER189 | 3 | Psychology: Statistics | CER262 | 6 |
| Mathematics: Numerical Analysis of Statistical Data | CER189 | 3 | Psychology: Statistics for Psychology | CER263 | 3 |
| Physics: Electric Circuits | CER448 | 3 | Physics: Electricity, Induction and Electromagnetism | CER450 | 9 |
| Physics: Electricity and Electromagnetism | CER338 | 6 | Physics: Electric Circuits | CER448 | 3 |
| Physics: Electricity and Electromagnetism | CER338 | 6 | Physics: Electricity, Induction and Electromagnetism | CER450 | 9 |
| Physics: Electricity and Electromagnetism | CER338 | 6 | Physics: Electromagnetism | YHS238 | 3 |
| Physics: Electricity, Induction and Electromagnetism | CER450 | 9 | Physics: Electromagnetism | YHS238 | 3 |
| Physics: Energy Transfer and Fluid Mechanics | CER455 | 3 | Physics: Thermodynamics and Fluid Mechanics | CER498 | 6 |
| Physics: Newtonian and Rotational Dynamics | CER473 | 6 | Physics: Newtonian Dynamics | CER474 | 3 |
| Physics: Newtonian and Rotational Dynamics | CER473 | 6 | Physics: Rotational Dynamics | CER491 | 3 |
| Physics: Particle Physics | CER479 | 3 | Physics: Exploring Particle Physics | CER571 | 3 |
| Physics: Particle Physics | CER479 | 3 | Physics: Particle Physics and Nuclear Power | CER480 | 6 |
| Physics: Particle Physics and Nuclear Power | CER480 | 6 | Physics: Exploring Particle Physics | CER571 | 3 |
| Physics: Thermodynamics | CER418 | 3 | Physics: Thermodynamics and Fluid Mechanics | CER498 | 6 |



| Barred Unit 1 | ID 1 | CV | Barred Unit 2 | ID2 | CV |
|---|--------|----|--|--------|----|
| Physics: Waves and Optics | CER304 | 3 | Physics: Exploring Waves and Optics | CER572 | 3 |
| Psychology: Defining Abnormality and Understanding Psychological Disorders | CER224 | 6 | Psychology: Psychological Disorders and Therapeutic Strategies | CER391 | 3 |
| Psychology: Developmental Psychology | CER076 | 6 | Psychology: Child Development | YHS241 | 3 |
| Psychology: Developmental Psychology | CER076 | 6 | Psychology: Child Development Early Socialisation | YHS242 | 3 |
| Psychology: Social Interaction | CER400 | 3 | Psychology: Exploring Social Interaction | CER595 | 3 |
| Psychology: Statistics for Psychology | CER263 | 3 | Mathematics: Continuous Probability Distributions | CER443 | 3 |
| Psychology: Statistics for Psychology | CER263 | 3 | Mathematics: Exploring Numerical Analysis of Statistical Data | CER614 | З |
| Psychology: Statistics for Psychology | CER263 | 3 | Mathematics: Further Statistics | CER461 | 6 |
| Science: Practical Science Skills | CER210 | 3 | Biology: Exploring Practical Biology Skills | CER566 | 3 |
| Study Skills: Advanced Information Technology | CER007 | 6 | Study Skills: Spreadsheet Software | CER261 | 3 |
| Study Skills: Advanced Information Technology | CER007 | 6 | Study Skills: Use of Information and Communication Technology | CER293 | 3 |
| Study Skills: Communication Skills | CER045 | 6 | Study Skills: Communications | CER046 | 3 |
| Study Skills: Group Processes | CER118 | 3 | Study Skills: Interview Skills and Group Presentations | CER150 | 3 |
| Study Skills: Higher Education Toolkit | CER132 | 6 | Study Skills: Interview Skills and Group Presentations | CER150 | 3 |



DIPLOMA UNITS AVAILABLE ON PEARL (all units are Level 3 and are mandatory)

Please select one of the following pathways:

Biophysical Science pathway

| Ungraded Units | User ID | Credit Value |
|--|------------|-----------------|
| Biology: Exploring Cellular Structure and Activity | YHS558 | 6 |
| Study Skills: Writing and Studying Academic Texts | YHS561 | 3 |
| Study Skills: Planning and Writing an Assignment | YHS560 | 3 |
| Mathematics: Exploring Trigonometric Functions, Ratios and Rules | YHS677 | 3 |
| Graded Units | User ID | Credit Value |
| Physics: The Properties, Principles and Applications of the Electromagnetic Spectrum | YHS686 | 3 |
| Biology: Cell Division and Genetic Variation | YHS550 | 3 |
| Physics: Characteristics of Radioactivity | YHS682 | 3 |
| Biology: Introduction to Human Reproduction | YHS580 | 3 |
| Physics: The Physics of Medical Imaging | YHS685 | 3 |
| Biology: The Role of Human Nervous System and Endocrine System in Homeostasis | YHS584 | 3 |
| Physics: The Major Laws of Physics | YHS684 | 6 |
| Biology: Immunity and Disease Defence | YHS662 | 3 |
| Biology: Health and Disease | YHS660 | 3 |
| Physics: Human Experience of Optics and Sound | YHS683 | 3 |
| Biology: Interaction of the Human Muscular and Skeletal Systems | YHS578 | 3 |
| Biology: Human Digestive System and Dietary Needs | YHS661 | 3 |
| Physics: Principles of Mechanical Engineering | YHS785 | 6 |



Biochemical Science pathway

| Ungraded Units | User ID | Credit Value |
|---|------------|-----------------|
| Biology: Exploring Cellular Structure and Activity | YHS558 | 6 |
| Study Skills: Writing and Studying Academic Texts | YHS561 | 3 |
| Study Skills: Planning and Writing an Assignment | YHS560 | 3 |
| Mathematics: Exploring Trigonometric Functions, Ratios and Rules | YHS677 | 3 |
| Graded Units | User ID | Credit Value |
| Biology: Cell Division and Genetic Variation | YHS550 | 3 |
| Biology: Introduction to Human Reproduction | YHS580 | 3 |
| Biology: The Role of Human Nervous System and Endocrine System in Homeostasis | YHS584 | 3 |
| Biology: Immunity and Disease Defence | YHS662 | 3 |
| Biology: Health and Disease | YHS660 | 3 |
| Biology: Interaction of the Human Muscular and Skeletal Systems | YHS578 | 3 |
| Biology: Human Digestive System and Dietary Needs | YHS661 | 3 |
| Chemistry: The Structure of the Atom | YHS687 | 3 |
| Chemistry: Arrangement and Trends in the Periodic Table | YHS552 | 3 |
| Chemistry: Atomic Structure, Electronic Structures and Bonds | YHS553 | 3 |
| Chemistry: The Structure and Bonding of Molecules | YHS556 | 3 |
| Chemistry: Hydrocarbons, Alkanes and Alkenes | YHS554 | 3 |
| Chemistry: Molarity and Chemical Change | YHS555 | 3 |
| Biology: Cellular and Subcellular Metabolism | YHS551 | 3 |
| Mathematics: Calculus For Scientists | YHS676 | 3 |



Medicine and Health Science pathway

| Ungraded Units | User ID | Credit Value |
|--|------------|-----------------|
| Biology: Exploring Cellular Structure and Activity | YHS558 | 6 |
| Study Skills: Writing and Studying Academic Texts | YHS561 | 3 |
| Study Skills: Planning and Writing an Assignment | YHS560 | 3 |
| Mathematics: Exploring Trigonometric Functions, Ratios and Rules | YHS677 | 3 |
| Graded Units | User ID | Credit Value |
| Biology: Cell Division and Genetic Variation | YHS550 | 3 |
| Biology: The Role of Human Nervous System and Endocrine System in Homeostasis | YHS584 | 3 |
| Biology: Immunity and Disease Defence | YHS662 | 3 |
| Biology: Interaction of the Human Muscular and Skeletal Systems | YHS578 | 3 |
| Chemistry: The Structure of the Atom | YHS687 | 3 |
| Chemistry: Atomic Structure, Electronic Structures and Bonds | YHS553 | 3 |
| Physics: The Physics of Medical Imaging | YHS685 | 3 |
| Chemistry: Hydrocarbons, Alkanes and Alkenes | YHS554 | 3 |
| Physics: The Major Laws of Physics | YHS684 | 6 |
| Chemistry: Molarity and Chemical Change | YHS555 | 3 |
| Physics: Human Experience of Optics and Sound | YHS683 | 3 |
| Biology: Cellular and Subcellular Metabolism | YHS551 | 3 |
| Chemistry: Arrangement and Trends in the Periodic Table | YHS552 | 3 |
| Physics: The Properties, Principles and Applications of the Electromagnetic Spectrum | YHS686 | 3 |