open awards

Changing lives through learning

Access to HE Diploma (Biomedical Science)

AIM code: 40015889

Qualification Guide

Contents

Version Control	
v1.0	New document April 2022
v2.0	Document rebranded. Additional 6-credit units inserted into relevant modules. February 2024.

About the Qualification

Title	Open Awards Access to HE Diploma (Biomedical Science)
Learning Aim Code	AIM 40015889
Sector	2.1 Science
Level	Level 3
Funding	Please click here for more information
Pricing Information	Please click here for more information
Review Date	31/07/2029

Purpose	To provide higher education progression opportunities for adults who, because of social, educational or individual circumstances, may have achieved few, if any, prior qualifications.

Available Delivery Modes	Classroom-based Learning Blended Learning Distance Learning

Total Qualification Time/Guided Learning	
Total Qualification Time (hours)	600
Guided Learning (hours)	600

Age Range and Restrictions	
Pre -16	x
16 – 18	✓
18+	✓
Any other restrictions specific to the qualification(s)	None

Any Specified Entry Requirements

This qualification is suitable for learners aged 17+.

There are no specific entry requirements with regards to prior qualifications. However, providers must liaise with Higher Education Institutions when developing their Access to HE programme to identify any additional requirements for progression.

In most cases, we expect learners to have or being working towards GCSE English and maths at grade C/4 or above or equivalents.

Recommended Assessment Method Summary

Assessments for Access to HE Diplomas are internally set, internally marked and externally moderated portfolio of evidence

Providers will be required to develop an assessment strategy before they begin delivery of this Diploma. This will ensure that a range of appropriate assessment methods are selected. Consideration must be given to the needs of all learners whilst also making sure that they can develop and evidence the skills, knowledge and confidence that will prepare them for the rigorous assessment regimes in higher education.

Types of evidence could include:

a) Written assignments
b) Essays
c) Reports
d) Presentations
e) Practical assessment
f) Examinations
g) Project work

Assessment practices must reflect the Equality and Diversity Policy of Open Awards.

Please see the Access to HE Provider Handbook for more information.

Qualification Structure

Rules of Combination

Credit Value of the Qualification:	60
Minimum Credits to be achieved at the Level of the Qualification:	45
Graded Credits	45
Ungraded Credits	15

Graded Units	
Mandatory Academic Unit Group A – Biology	A minimum of 15 graded credits required.
Mandatory Academic Unit Group B – Chemistry	A minimum of 9 graded credits required.
Optional Academic Unit Group C – Maths	The remaining 15 graded credits may be selected from groups A, B or C-E.
Optional Academic Unit Group D – Microbiology	
Optional Academic Unit Group E – Physics	
Ungraded Units	
Optional Ungraded Academic Unit Group A – Biology Optional Ungraded Academic Unit Group B – Chemistry Optional Ungraded Academic Unit Group C – Maths Optional Ungraded Academic Unit Group D – Microbiology Optional Ungraded Academic Unit Group E - Physics	A minimum of 15 ungraded credits must be selected from ungraded groups A – F.

Optional Ungraded Group F – Developmental	

In addition, you must ensure that at least one six (6) credit (academic graded, academic ungraded, or ungraded developmental) to be compliant with the requirements of the QAA Access to HE Diploma specification.

You can select up to a maximum of 30 credits made up of six (6) credit (academic graded, ungraded, or ungraded developmental) units.

Please note, units with the same title (ungraded and graded) are barred.

Qualification Units

Graded

Mandatory Unit Group A – Biology

(A minimum of 15 graded credits required.)

Unit Code	Unit Name	Credits	Level
GA33BIO01	Biological Molecules	3	Level Three
GA33BIO16	Body Defences	3	Level Three
GA33BIO02	Cell Metabolism	3	Level Three
GA33HEA10	Clinical Work Experience Unit	3	Level Three
GA33BIO31	Co-Evolution	3	Level Three
GA33BIO09	Coordination and Control	3	Level Three
GA33BIO11	Diet and Digestion	3	Level Three
GA36BIO40	Disease and Immunity	6	Level Three
GA33BIO05	DNA Technology	3	Level Three
GA33BIO10	Ecosystems	3	Level Three
GA33BIO04	Evolution and Speciation	3	Level Three
GA33BIO15	Exchange and Transport of Gases	3	Level Three
GA36BIO33	From Cells to Organ Systems	6	Level Three
GA33BIO06	Genetics	3	Level Three
GA33BIO03	Homeostasis	3	Level Three
GA33BIO14	Human Cardiovascular System	3	Level Three
GA36BIO34	Human Cardiovascular and Respiratory Systems	6	Level Three
GA33BIO24	Human Reproduction	3	Level Three
GA36BIO35	Human Reproduction and Genetics	6	Level Three
GA33BIO19	Lifestyle Choices and Health	3	Level Three
GA33BIO13	Organisation of the Body	3	Level Three
GA36SCI01	Practical Scientific Project	3	Level Three
GA33BIO08	The Cell	3	Level Three
GA33BIO07	The Musculoskeletal System	3	Level Three
GA36BIO38	The Role of the Endocrine and Nervous Systems in Human Homeostasis	6	Level Three

Mandatory Unit Group B – Chemistry

(A minimum of 9 graded credits required.)

Unit Code	Unit Name	Credits	Level
GA33CHE16	Analytical Chemistry	3	Level Three
GA36CHE18	Characteristics of the Periodic Table	6	Level Three
GA33CHE11	Chemical and Acid-Base Equilibria	3	Level Three
GA33CHE12	Energetics	3	Level Three
GA33CHE06	Further Organic Chemistry	3	Level Three
GA33CHE13	Kinetics and Redox Systems	3	Level Three
GA33CHE02	Organic Chemistry	3	Level Three
GA33CHE14	Periodicity	3	Level Three
GA36SCI01	Practical Scientific Project	3	Level Three
GA33CHE03	Reacting Amounts	3	Level Three
GA33CHE09	Structure and Bonding	3	Level Three
GA33CHE15	The Transition Elements	3	Level Three

Optional Unit Group C - Maths

Unit Code	Unit Name	Credits	Level
GA33MTH05	Algebra	3	Level Three
GA33MTH07	Algorithms, Pseudocode and Trace Tables	3	Level Three
GA33MTH01	Complex Numbers	3	Level Three
GA33MTH10	Computer Logic	3	Level Three
GA33MTH13	Coordinate Geometry	3	Level Three
GA33MTH14	Differentiation	3	Level Three
GA33MTH06	Integration	3	Level Three
GA33MTH09	Logarithms and Exponentials	3	Level Three
GA33MTH15	Matrices	3	Level Three
GA33MTH21	Number Systems and Data Representation	3	Level Three
GA33PHY18	Physical Quantities and Algebraic Methods	3	Level Three
GA33MTH20	Series and Partial Fractions	3	Level Three
GA33MTH19	Statistical Methods	3	Level Three
GA33MTH02	Trigonometric Methods	3	Level Three
GA33MTH12	Vectors	3	Level Three

Optional Unit Group D - Microbiology

Unit Code	Unit Name	Credits	Level

GA33BIO25	Control of Infection	3	Level Three
GA33BIO23	Microbial Biotechnology	3	Level Three
GA33BIO20	Microorganisms	3	Level Three
GA36BIO36	Microorganisms and Infection	6	Level Three
GA36BIO26	Practical Microbiological Techniques	6	Level Three
GA36SCI01	Practical Scientific Project	6	Level Three

Optional Unit Group E - Physics

Unit Code	Unit Name	Credits	Level
GA33PHY14	Circular Motion, Simple Harmonic Motion and Resonance	3	Level Three
GA33PHY11	Dynamics and Statics	3	Level Three
GA33PHY01	Magnetic Fields and Electromagnetic Induction	3	Level Three
GA33PHY06	Current Electricity and the Transient Response	3	Level Three
GA33PHY08	Fluid Mechanics	3	Level Three
GA33PHY05	Heat and Thermodynamics	3	Level Three
GA33PHY12	Medical Uses of Radioisotopes	3	Level Three
GA33PHY04	Nuclear Physics	3	Level Three
GA33PHY02	X-ray Spectra and Medical Uses of X-rays	3	Level Three
GA33PHY17	Physics of the Senses	3	Level Three
GA33PHY18	Physical Quantities and Algebraic Methods	3	Level Three
GA33PHY19	Properties of Matter	3	Level Three
GA33PHY20	Gravitational and Electric Fields	3	Level Three
GA33PHY21	Quantum Physics	3	Level Three
GA36PHY23	Non-Ionising Medical Imaging	6	Level Three

Ungraded

Optional Unit Group A - Biology

Unit Code	Unit Name	Credits	Level
UA33BIO01	Biological Molecules	3	Level Three
UA33BIO16	Body Defences	3	Level Three
UA33BIO02	Cell Metabolism	3	Level Three
UA33HEA10	Clinical Work Experience Unit	3	Level Three

UA33BIO31	Co-Evolution	3	Level Three
UA33BIO09	Coordination and Control	3	Level Three
UA33BIO11	Diet and Digestion	3	Level Three
UA36BIO40	Disease and Immunity	6	Level Three
UA33BIO05	DNA Technology	3	Level Three
UA33BIO10	Ecosystems	3	Level Three
UA33BIO04	Evolution and Speciation	3	Level Three
UA33BIO15	Exchange and Transport of Gases	3	Level Three
UA36BIO33	From Cells to Organ Systems	6	Level Three
UA33BIO06	Genetics	3	Level Three
UA33BIO03	Homeostasis	3	Level Three
UA33BIO14	Human Cardiovascular System	3	Level Three
UA36BIO34	Human Cardiovascular and Respiratory Systems	6	Level Three
UA33BIO24	Human Reproduction	3	Level Three
UA36BIO35	Human Reproduction and Genetics	6	Level Three
UA33BIO19	Lifestyle Choices and Health	3	Level Three
UA33BIO13	Organisation of the Body	3	Level Three
UA36SCI01	Practical Scientific Project	3	Level Three
UA33BIO08	The Cell	3	Level Three
UA33BIO07	The Musculoskeletal System	3	Level Three
UA36BIO38	The Role of the Endocrine and Nervous Systems in Human Homeostasis	6	Level Three

Optional Unit Group B - Chemistry

Unit Code	Unit Name	Credits	Level
UA33CHE16	Analytical Chemistry	3	Level Three
UA36CHE18	Characteristics of the Periodic Table	6	Level Three
UA33CHE11	Chemical and Acid-Base Equilibria	3	Level Three
UA33CHE12	Energetics	3	Level Three
UA33CHE06	Further Organic Chemistry	3	Level Three
UA33CHE13	Kinetics and Redox Systems	3	Level Three
UA33CHE02	Organic Chemistry	3	Level Three
UA33CHE14	Periodicity	3	Level Three
UA36SCI01	Practical Scientific Project	3	Level Three
UA33CHE03	Reacting Amounts	3	Level Three
UA33CHE09	Structure and Bonding	3	Level Three

UA33CHE15	The Transition Elements	3	Level Three

Optional Unit Group C - Maths

Unit Code	Unit Name	Credits	Level
UA33MTH05	Algebra	3	Level Three
UA33MTH07	Algorithms, Pseudocode and Trace Tables	3	Level Three
UA33MTH01	Complex Numbers	3	Level Three
UA33MTH10	Computer Logic	3	Level Three
UA33MTH13	Coordinate Geometry	3	Level Three
UA33MTH14	Differentiation	3	Level Three
UA33MTH06	Integration	3	Level Three
UA33MTH09	Logarithms and Exponentials	3	Level Three
UA33MTH15	Matrices	3	Level Three
UA33MTH21	Number Systems and Data Representation	3	Level Three
UA33PHY18	Physical Quantities and Algebraic Methods	3	Level Three
UA33MTH20	Series and Partial Fractions	3	Level Three
UA33MTH19	Statistical Methods	3	Level Three
UA33MTH02	Trigonometric Methods	3	Level Three
UA33MTH12	Vectors	3	Level Three

Optional Unit Group D - Microbiology

Unit Code	Unit Name	Credits	Level
UA33BIO25	Control of Infection	3	Level Three
UA33BIO23	Microbial Biotechnology	3	Level Three
UA33BIO20	Microorganisms	3	Level Three
UA36BIO36	Microorganisms and Infection	6	Level Three
UA36BIO26	Practical Microbiological Techniques	6	Level Three
UA36SCI01	Practical Scientific Project	6	Level Three

Optional Unit Group E - Physics

Unit Code	Unit Name	Credits	Level
UA33PHY14	Circular Motion, Simple Harmonic Motion and Resonance	3	Level Three
UA33PHY11	Dynamics and Statics	3	Level Three
UA33PHY01	Magnetic Fields and Electromagnetic Induction	3	Level Three

UA33PHY06	Current Electricity and the Transient Response	3	Level Three
UA33PHY08	Fluid Mechanics	3	Level Three
UA33PHY05	Heat and Thermodynamics	3	Level Three
UA33PHY12	Medical Uses of Radioisotopes	3	Level Three
UA33PHY04	Nuclear Physics	3	Level Three
UA33PHY02	X-ray Spectra and Medical Uses of X-rays	3	Level Three
UA33PHY17	Physics of the Senses	3	Level Three
UA33PHY18	Physical Quantities and Algebraic Methods	3	Level Three
UA33PHY19	Properties of Matter	3	Level Three
UA33PHY20	Gravitational and Electric Fields	3	Level Three
UA33PHY21	Quantum Physics	3	Level Three
UA36PHY23	Non-Ionising Medical Imaging	6	Level Three

Optional Unit Group F – Developmental

Unit Code	Unit Name	Credits	Level
UD33DEV23	Communication: Academic Essay Writing	3	Level Three
UD36DEV35	Communication: Critical Thinking in Academic Writing	6	Level Three
UD23DEV20	Communication: Reading Strategies	3	Level Two
UD33DEV29	Communication: Portfolio of Writing Exercises	3	Level Three
UD33DEV25	Communication: Presentation Skills	3	Level Three
UD23DEV21	Communication: Punctuation and Grammar Skills	3	Level Two
UD33DEV24	Communication: Report Writing	3	Level Three
UD23DEV19	Communication: Speaking and Listening Skills	3	Level Two
UD23DEV22	Communication: Writing for Meaning	3	Level Two
UD33DEV10	ICT: Advance Use of ICT	3	Level Three
UD33DEV15	ICT: Advanced Word Processing	3	Level Three
UD23DEV09	ICT: Using ICT	3	Level Two
UD26DEV24	ICT: Using ICT and Word Processing	6	Level Two
UD23DEV11	ICT: Using Presentation Software	3	Level Two
UD23DEV13	ICT: Using Spreadsheets	3	Level Two
UD23DEV14	ICT: Word Processing	3	Level Two
UD23DEV01	Use of Number: Numbers and Algebra	3	Level Two
UD23DEV02	Use of Number: Data Handling and Probability	3	Level Two
UD23DEV03	Use of Number: Maths Project	3	Level Two
UD23DEV04	Use of Number: Measure and Shape	3	Level Two

UD33DEV27	Personal Development: Applying for HE	3	Level Three
UD33DEV28	Personal Development: Setting Targets and Reflective Practice	3	Level Three
UD33DEV26	Personal Development: Study Skills	3	Level Three
UD33DEV32	Professional Behaviours	3	Level Three
UD33DEV34	Safeguarding	3	Level Two
UD23DEV06	Science: Introduction to Biology	3	Level Two
UD23DEV07	Science: Introduction to Physics	3	Level Two
UD23DEV08	Science: Introduction to Chemistry	3	Level Two
UD33DEV18	Study Skills: Critical Analysis	3	Level Three
UD33DEV16	Study Skills: Developing Research Skills	3	Level Three
UD33DEV17	Study Skills: Using Research Skills	3	Level Three
UD33DEV31	Science: Biological Practical Skills	3	Level Three
UD36DEV36	Study Skills: Research Skills and Using Information	6	Level Three
UD36DEV37	Study Skills: Academic Skills for Access to HE	6	Level Three
UD36DEV38	Study Skills: Access Research Project	6	Level Three

Delivering this Qualification

Becoming a Provider

To deliver this qualification you must be a recognised Open Awards provider. For more information, head to our website or contact the team on 0151 494 2072.

How to Deliver

If you are approved to deliver Access to HE Diplomas with Open Awards, you can apply deliver this Diploma by completing a Merlin Form and submitting via the Open Awards portal. For more information, see the Provider Handbook, or contact the team on 0151 494 2072.

Registering Learners

Access to HE learners should be registered within 6 weeks of the learner's individual start date or before the learner's official (usually UCAS) application deadline via the Open Awards Secure Portal. Please make sure that learners are registered with the correct details and on the correct Diploma. If learners are registered incorrectly, there will be an administration charge to rectify errors.
Learners can be added onto existing course runs but are subject to the 6-week registration deadline.

Amendments or late registrations may be requested up to 26 weeks from the learner's start date but are only considered in extenuating circumstances and on an individual basis. These requests may result in further investigations by Open Awards and control measures may be applied.

Learner registration data can be submitted using the provided 'LRF (Access to HE)' template or via a report generated from your own MIS system. The data provided must be in accordance with the Access to the HE Data Specification document which is available via the secure portal.

You will need to register your learners via the Open Awards portal. More information can be found in our Access to HE Provider Handbook.

Assessment and Quality Assurance

Delivery of this qualification must be done so in accordance with Quality Assurance Agency (QAA) regulatory guidelines and in line with Open Awards' quality assurance processes. Please see our Access to HE Provider Handbook for more information.

Provider Staff Requirements

It is expected that providers will have occupationally competent staff with relevant sector experience for their role in the delivery of the units/qualifications being offered.

For the delivery and assessment of this qualification, it is expected that staff have a qualification at the level higher than the qualification in a related academic subject and have up-to-date working knowledge and experience of best practice in assessment and quality assurance.

Providers are responsible for ensuring that their staff are occupationally competent and have access to appropriate training and support. They are also responsible for notifying Open Awards of staff changes.

Assessment

Each Access to HE Diploma must be supported by assessment plans to ensure that students are able to demonstrate the skills, knowledge and confidence that will prepare them for the rigorous assessment regimes in higher education.

Tutors must develop plans which show how they intend to assess each unit and the Diploma as a whole. These plans must be internally moderated. The assessment plan should cover the whole Diploma and include:

- Number of assignments
- Type and range of assessments
- How tasks will allow for differentiation
- An assessment strategy for the whole Diploma
- A schedule of delivery and assessment/ scheme of work
- Consideration as to whether the strategy prepares learners for Higher Education

In order to achieve the Diploma, learners must meet all Learning Outcomes and associated Assessment Criteria in all units approved in the Diploma specification.

Each Assessment Criterion must be assessed only once. All grade descriptors assigned to a unit by Open Awards (as indicated in the unit content document) must be included in the assessment of assignment(s) for that unit. Descriptors that have not been formally assigned to the unit must not be used. A single grade descriptor may be included more than once where more than one assignment is used to measure achievement for a single unit. Grade Descriptor 7 must be used for all assignments.

A variety of assessment methods should be used which will allow learners the opportunity to develop experience and skills required for HE study. At least one unit from each module should be assessed using a formal and controlled assessment method e.g. examinations.

Where a unit is assessed by more than one assignment, the assessment strategy must clearly state which graded descriptors will be considered for each assignment and how you will apply a single grade for the unit.

Assessment practices must reflect the Equality and Diversity Policy of Open Awards. Reasonable adjustments may be required for individual learners to enable them to undertake assessments fairly. Please see our Reasonable Adjustments and Special Considerations Policy for more information.

Preparing Assignments

One of the many benefits of an Open Awards Access to HE Diploma is that tutors design the assignments for their own provision to suit the context of delivery and to

make the most of the variety of assessments methods available in individual circumstances. Please see our Access to HE Provider Handbook for more information.

Drafts, Submissions and Re-submissions

It is a requirement that you publish procedures for the formal submission of work for assessment in your course handbook. These procedures must be the same for all the Access Diplomas that you are approved to deliver.

Your procedures must conform to QAA requirements as set out in the Grading Scheme Handbook (Sections C and E).

Please see our Access to HE Provider Handbook for more information.

Verification and Standardisation

Internal Verification

Internal verification is a process by which the provider systematically samples and evaluates its assessment practices and decisions, and acts on the findings to ensure consistency and fairness. The main purpose is to improve and standardise practice in the assessment of learners.

The Access to HE Coordinator must take responsibility for internal verification of all Access to HE Diplomas at your organisation and we will expect that you have the appropriate levels of resources to implement these processes.

Verification activities must include:

- Pre-delivery verification
- Verification of achievement

Internal Standardisation

Standardisation is a vital component of any robust quality assurance system and as a condition of provider approval all Open Awards Access to HE providers agree to participate in standardisation activities.

Where more than one tutor / assessor makes assessment decisions and recommendations for the award of credit to learners on the same Diploma or similar courses it is essential that internal verification processes include the standardisation of their practice.

Open Awards expect providers to plan and undertake standardisation of internally-set tasks and the outcomes of internal assessment **at least twice a year**.

Please see our Access to HE Provider Handbook for more information on verification and standardisation activities required.

External Standardisation

Standardisation is a vital component of any robust quality assurance system and as

a condition of provider approval all Open Awards Access to HE providers agree to participate in standardisation activities, both internally and externally.

Open Awards runs a series of standardisation activities that are accessible to all Access to HE providers.

Open Awards runs live standardisation events for each pathway to allow practitioners to peer review and learn from each other through networking. We are aware that some staff may wish to participate in standardisation activities but will be unable to attend events at the Open Awards office.

We also offer online standardisation activities. You will be provided with access to an online repository of standardisation activities, training and opportunities to share best practices.

For more information on each of these processes, please see the Access to HE Provider Handbook.

Recognition of Prior Learning and Achievement (RPL)

Learners presenting evidence of accredited prior learning on non-Access courses can apply for exemption for credit on relevant Level 2 and Level 3 units where appropriate.

Learners who have achieved Access to HE Diploma credits (either from Open Awards or another AVA) may wish to claim credit towards an Open Awards Diploma. Credit transfer is dependent on the content of the unit/s from which those credits were gained matching the content of the unit/s for which they wish to claim.

For more information, please see our Recognition of Prior Learning Policy.
https://openawards.org.uk/centres/policies-and-procedures/

Appendices and Links

The following documents can be viewed on the Open Awards website:

1. Provider Handbook
2. Enquiries and Appeals Policy and Procedures
3. Complaints Policy
4. Equality and Diversity Policy
5. Invoicing Policy
6. Privacy Policy
7. Reasonable Adjustments and Special Considerations Policy and Procedures

Additional supporting documents can be viewed in the Open Awards Portal.

Open Awards
17 De Havilland Drive,
Estuary Commerce Park
Speke
Liverpool
L24 8N
0151 494 2072
enquiries@openawards.org.uk
www.openawards.org.uk
@openawards