

## Pearson BTEC Level 3 National Extended Diploma in Applied Science (Biomedical Science)

### Mandatory units

There are seven mandatory units, three internal and four external. Learners must complete and achieve at pass grade or above for all these units.

### Optional units

Learners must complete six optional units. The optional units are grouped. Learners must take 4 – 6 units from group A and up to two units from group B.

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Unit number	Unit title	GLH	Type	How assessed
<b>Mandatory units – learners complete and achieve all units</b>				
1	Principles and Applications of Science I	90	Mandatory	External
2	Practical Scientific Procedures and Techniques	90	Mandatory	Internal
3	Science Investigation Skills	120	Mandatory	External
4	Laboratory Techniques and their Application	90	Mandatory	Internal
5	Principles and Applications of Science II	120	Mandatory	External
6	Investigative Project	90	Mandatory	Internal
7	Contemporary Issues in Science	120	Mandatory Synoptic	External
<b>Optional units group A – learners complete 4–6 units</b>				
8	Physiology of Human Body Systems	60	Optional	Internal
9	Human Regulation and Reproduction	60	Optional	Internal
10	Biological Molecules and Metabolic Pathways	60	Optional	Internal
11	Genetics and Genetic Engineering	60	Optional	Internal
12	Diseases and Infections	60	Optional	Internal
17	Microbiology and Microbiological Techniques	60	Optional	Internal
20	Biomedical Science	60	Optional	Internal
21	Medical Physics Applications	60	Optional	Internal
<b>Optional units group B – learners complete 0–2 units</b>				
13	Applications of Inorganic Chemistry	60	Optional	Internal
14	Applications of Organic Chemistry	60	Optional	Internal
15	Electrical Circuits and their Application	60	Optional	Internal
16	Astronomy and Space Science	60	Optional	Internal
18	Industrial Chemical Reactions	60	Optional	Internal
19	Practical Chemical Analysis	60	Optional	Internal
22	Materials Science	60	Optional	Internal

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Unit number	Unit title	GLH	Type	How assessed
23	Forensic Evidence, Collection and Analysis	60	Optional	Internal
24	Cryogenics and Vacuum Technology	60	Optional	Internal
25	Forensic Fire Investigation	60	Optional	Internal
26	Forensic Traffic Collision Investigation	60	Optional	Internal