Pearson BTEC Level 4 Diploma in Healthcare Science- 603/2313/9

Units by specialism

Units in bold*are either new or have had a new title
Minimum number of credits that must be achieved 100
Minimum number of credits that must be achieved at Level 4 or above 51
Number of mandatory credits that must be achieved 37
Number of optional credits that must be achieved 63

Unit	Unit title	Specialism	Level	Credit
1	Skills for Lifelong Learning	CORE	4	2
2	Professional Practice and Person-centred Care	CORE	4	5
3	Legal and Ethical Context of Practice	CORE	4	3
4	Health, Safety and Security in the Healthcare Science Environment	CORE	4	3
5	Technical Scientific Services	CORE	4	5
6	Effective Communication in Healthcare	CORE	4	4
7	Audit, Research, Development and Innovation	CORE	4	5
8	Leadership and Teamwork	CORE	4	3
9	Teaching, Learning and Assessing Practical Skills	CORE	4	4
10	Continuing Personal and Professional Development	CORE	4	3
		Total Core		37
11	Scientific Basis of Healthcare Science: Clinical Science	General Healthcare Science	4	25
12	Scientific Basis of Healthcare Science: Genetics and Genomics and Clinical Bioinformatics	General Healthcare Science	4	10

13	Scientific Basis of Healthcare Science: Pharmacology and Therapeutics	General Healthcare Science	4	5
14	Scientific Basis of Healthcare Science: Epidemiology and Public Health	General Healthcare Science	4	10
15	Scientific Basis of Healthcare Science: Mathematics, Statistics and Physical Sciences	General Healthcare Science	4	10
16	Point of Care Testing	General Healthcare Science	4	5
17	The Building Blocks of Life	General Healthcare Science	4	20
18	The Science Behind the Cure	General Healthcare Science	4	20
19	General Laboratory Practice	General Healthcare Science	4	11
127	Project Management	General Healthcare Science	4	5
121	**Intro to Data Science and Data Management in Healthcare***	Bioinformatics	4	10
122	Introduction to Clinical Bioinformatics (Genomics)	Bioinformatics	4	10
123	Introduction to UNIX	Bioinformatics	4	7
124	Safe Use of Information Communication Technology within the Clinical Environment	Bioinformatics	4	10
125	Informatics for Physical Sciences	Bioinformatics	4	9
126	Technical Support for Computerised Medical Devices	Bioinformatics	4	10
128	Clinical Bioinformatics in Practice (Cancer Genomics)	Bioinformatics	4	20
129	Clinical Bioinformatics in Practice (Infectious Diseases)	Bioinformatics	4	20
130	Clinical Bioinformatics in Practice (Rare Diseases)	Bioinformatics	4	20
52	Principles of Ultrasound	Life Science	4	3
63	Scientific Basis of Neurosensory Sciences: Applied Physics and Measurement	Life Science	4	15
64	Scientific Basis of Neurosensory Sciences: Applied Anatomy, Physiology and Pathophysiology: The Nervous System	Life Science	4	10

65	Scientific Basis of Neurosensory Sciences: Applied Anatomy, Physiology and Pathophysiology: The Ear	Life Science	**4**	**5**
39	Principles and Practice of Decontamination Science	Decontamination Science	**4**	**5**
40	Preparation of Medical Devices for the Cleaning and Disinfection Process	Decontamination Science	**4**	**5**
41	Cleaning and Disinfection of Medical Devices: Manual Processes	Decontamination Science	**4**	**5**
42	Cleaning and Disinfection of Medical Devices: Automated Processes	Decontamination Science	**4**	**5**
43	Inspection, Assembly, Packaging of Medical Devices in a Controlled Environment	Decontamination Science	**4**	**10**
44	Terminal Processing including Sterilisation and High Level Disinfection	Decontamination Science	**4**	**5**
45	Testing, Maintenance and Breakdown Management of Decontamination Equipment	Decontamination Science	**4**	**5**
46	Principles and Practice of Flexible Endoscope Decontamination	Decontamination Science	**4**	**6**
29	Clinical Biochemistry in Practice -*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
30	Haematology in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
31	Clinical Immunology in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
32	Histocompatibility and Immunogenetics in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
33	Transfusion Science – Blood Transfusion in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
34	Transfusion Science – Stem Cell and Tissue Transplantation-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**

35	Histology in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
36	Cytology in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
37	Microbiology in Practice *Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
38	Virology in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Laboratory Science	**4**	**30**
20	Procedures for Witnessing in the HFEA-licensed Fertility Clinic	Reproductive Science	**3**	**2**
21	Check documentation of Consent in the HFEA-licensed Fertility Clinic	Reproductive Science	**3**	**3**
22	Identify and Instruct Individuals Providing Semen Samples in the HFEA-licensed Fertility Clinic	Reproductive Science	**3**	**3**
23	Laboratory Practice in the HFEA-licensed Reproductive Science Laboratory	Reproductive Science	**4**	**3**
24	Principles and Organisation of Services in the HFEA-licensed Fertility Clinic	Reproductive Science	**4**	**3**
25	Reproductive Sciences: Human Body Systems – Biological Basis of Reproductive Systems	Reproductive Science	**4**	**4**
26	Prepare Culture Systems for Gametes and Embryos in the HFEA-licensed Reproductive Science Laboratory	Reproductive Science	**4**	**5**
27	Prepare Documents for the Transport of Gametes and Embryos to and from Other Fertility Clinics	Reproductive Science	**4**	**5**
28	Semen Assessment	Reproductive Science	**4**	**5**
47	The Role of the Genetic Counsellor	Genetics and Genomics	**4**	**5**
48	Genetics and Genomics in Practice-*Learners taking this unit must also take Unit 19: General Laboratory Practice*	Genetics and Genomics	**4**	**30**
66	Adult hearing Screening and Assessment	Audiology	**4**	**25**
67	Hearing Aid repair and Maintenance	Audiology	**4**	**15**

70	Assist in the Recording of Visual Evoked Potentials	Ophthalmology	**4**	**6**
71	Assist in the Recording of Visual Electrophysiological Investigations	Ophthalmology	**4**	**6**
73	Ophthalmic and Vision Science: Applied Microbiology	Ophthalmology	**4**	**6**
74	Ophthalmic Pharmacology	Ophthalmology	**4**	**6**
75	Instil Eye Medication for Purpose of Investigation or Treatment	Ophthalmology	**3**	**5**
76	Anatomy, Physiology and Pathophysiology of the Visual System	Ophthalmology	**4**	**6**
77	Imaging the Eye with Fundus Camera and Optical Coherence Tomography	Ophthalmology	**4**	**6**
78	Measure Visual Acuity	Ophthalmology	**3**	**3**
79	Visual Field Assessment	Ophthalmology	**3**	**5**
80	Measure Optical Prescriptions and Refractive Error	Ophthalmology	**3**	**5**
103	Scientific Basis of Physical Sciences: Mathematics, Statistics and Informatics	Equipment Management and Clinical Engineering	**4**	**10**
104	Scientific Basis of Engineering: Electrical and Basic Electronics	Equipment Management and Clinical Engineering	**4**	**15**
105	Scientific Basis of Engineering: Basic Mechanics	Equipment Management and Clinical Engineering	**4**	**15**
106	Scientific Basis of Physical Sciences Scientific Basis of Medical Physics	Equipment Management and Clinical Engineering	**4**	**30**
107	Clinical Engineering Workshop Skills	Equipment Management and Clinical Engineering	**4**	**4**
108	The Medical Equipment Lifecycle	Equipment Management and Clinical Engineering	**4**	**6**
109	Acceptance Testing of New Medical Equipment	Equipment Management and Clinical Engineering	**4**	**6**
110	Planned Preventive Maintenance	Equipment Management and Clinical Engineering	**4**	**4**

111	Diagnosing and Rectifying Equipment Faults	Equipment Management and Clinical Engineering	4	4
112	Decommissioning and Disposal of Medical Equipment	Equipment Management and Clinical Engineering	4	6
113	Medical Engineering in Practice	Equipment Management and Clinical Engineering	4	15
114	Rehabilitation Engineering in Practice	Equipment Management and Clinical Engineering	4	15
116	Ionising Radiation Engineering in Practice	Medical Physics	4	15
117	Working Practices in Physical Sciences	Medical Physics	4	5
118	Radiotherapy Physics in Practice	Medical Physics	4	20
119	Nuclear Medicine in Practice	Medical Physics	4	20
120	Radiation Physics in Practice	Medical Physics	4	20
53	Recognising ECG Abnormalities in Adults	Cardiac Physiology	4	10
54	Ambulatory ECG Monitoring	Cardiac Physiology	4	20
55	Ambulatory Blood Pressure Monitoring	Cardiac Physiology	4	15
56	Assist in Cardiac Stress Testing- *Learners taking this unit must also complete Unit 53: Recognising ECG Abnormalities in Adults*	Cardiac Physiology	4	6
57	Introduction to Congenital Heart Disease	Cardiac Physiology	4	4
58	Recognising ECG Abnormalities in Children	Cardiac Physiology	4	10
95	Assist in Performing Tilt Testing	Cardiac Physiology	4	6
96	Withdrawal of Blood from an Indwelling Peripheral Cannula	Cardiac Physiology	4	3
97	Assist with the Assessment of Plasma Catecholamine and Biochemical Levels	Cardiac Physiology	4	7
98	Assist in Performing Situational Provocation Testing	Cardiac Physiology	4	7
99	Peripheral Intravenous Cannulation	Cardiac Physiology	5	5
100	Introduction to Vascular Science	Cardiac Physiology	4	3
101	Measuring Ankle Brachial Pressure Index	Cardiac Physiology	3	2
102	Measurement of Post-Exercise Ankle Brachial Pressure Index	Cardiac Physiology	4	6
131	Measurement of Toe Pressure by Photoplethysmography (PPG)-*Learners*	Cardiac Physiology	4	10

	taking this unit must also take Unit 102: Measurement of PostExercise Ankle Brachial Pressure Index			
132	Measurement of Transcutaneous Oxygen (TCPO2) - *Learners taking this unit must also complete Unit 102: Measurement of Post-Exercise Ankle Brachial Pressure Index and Unit 131: Measurement of Toe Pressure by Photoplethysmography (PPG)*	Cardiac Physiology	**4**	**10**
49	Scientific Basis of Cardiovascular, Respiratory and Sleep Science: Cardiac Embryology, Anatomy and Physiology	Respiratory and Sleep Physiology	**4**	**15**
50	Scientific Basis of Cardiovascular, Respiratory and Sleep Science: Anatomy, Histology and Physiology of the Respiratory System	Respiratory and Sleep Physiology	**4**	**15**
51	Scientific Basis of Cardiovascular, Respiratory and Sleep Science: Scientific Basis of Respiratory Disorders of Sleep	Respiratory and Sleep Physiology	**4**	**10**
59	**Spirometry and Bronchodilator Response in Adults**	**Respiratory and Sleep Physiology**	**4**	**10**
60	Measurement of Single Breath Gas Transfer	Respiratory and Sleep Physiology	**4**	**15**
61	**Sleep Diagnostics***	**Respiratory and Sleep Physiology**	**3**	**10**
62	Spirometry, Static Lung Volumes and Bronchodilator Response in Children	Respiratory and Sleep Physiology	**5**	**15**
133	**Measuring Peripheral Oxygen Saturation***	**Respiratory and Sleep Physiology**	**4**	**10**
135	**Sleep Therapy *-***Learners taking this unit must also completed Unit 61: Sleep Diagnostics***	**Respiratory and Sleep Physiology**	**4**	**10**
136	**Measurement of Static Lung Volumes in Adults***	**Respiratory and Sleep Physiology**	**4**	**12**
89	The Urinary System	Urodynamics & Urology	**4**	**6**
90	Performing Urine Dip Stick Analysis	Urodynamics & Urology	**4**	**3**
91	Ultrasound Measurement of Post-Void Residual Urine	Urodynamics & Urology	**4**	**12**
92	Assisting with Standard Urodynamic Studies	Urodynamics & Urology	**4**	**10**

93	Assisting with Flowmetry Studies	Urodynamics & Urology	**4**	**10**
115	Renal Technology in Practice	Urodynamics & Urology	**4**	**15**
81	Introduction to Gastrointestinal Physiology	Gastrointestinal Physiology	**4**	**5**
82	Performing a Breath Test for Carbohydrate Malabsorption- *Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology*	Gastrointestinal Physiology	**4**	**8**
83	Performing Percutaneous Tibial Nerve Stimulation (PTNS) in Patients with Faecal and Urinary Incontinence Overactive Bladder (OAB)-*Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology*	Gastrointestinal Physiology	**4**	**12**
84	24-hour Upper Gastrointestinal Physiology Studies: Post-Recording Management Studies-*Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology*	Gastrointestinal Physiology	**4**	**10**
85	Assist in Post Sacral Nerve Stimulation Implantation Follow-up Clinics-*Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology*	Gastrointestinal Physiology	**4**	**6**
86	Preparing Equipment for Ambulatory 24 Hour Monitoring, including pH and Combined pH/Impedance Studies-*Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology*	Gastrointestinal Physiology	**4**	**6**
87	Preparing Lower GI equipment: High Resolution Anorectal Manometry-*Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology*	Gastrointestinal Physiology	**4**	**6**
88	Preparing Lower GI equipment: Endoanal Ultrasound-*Learners taking this unit must also take Unit 81: Introduction to Gastrointestinal Physiology*	Gastrointestinal Physiology	**4**	**6**

68	Assisting with Electroencephalography	Neurophysiology	4	15
69	Performing Machine Function Tests	Neurophysiology	4	7
72	Assist during Nerve Conduction Studies and Electromyography	Neurophysiology	4	6
94	Introduction to Autonomic Science	Neurophysiology	4	8