



Medical Science

Pearson AAQ Medical Science



Medical Science explores the science behind healthcare, from diagnosing diseases to understanding treatments. The Pearson BTEC Level 3 National in Medical Science is an Alternative Academic Qualification (AAQ) ideal for students interested in careers in healthcare, biomedical science, and laboratory science. This course blends practical skills with theoretical knowledge, preparing students for technical roles in healthcare or further study in medical science.

Topics you will study

Year 12 and Year 13:

Principles of Human Physiology, Anatomy and Pathology: foundation in biological study for medical science by examining human body functions at cellular, tissue, and organ system levels, exploring how these systems interrelate

Health Issues and Scientific Reporting: key medical science areas, focusing on contemporary health issues like cancer, immune dysfunction, and genetics

Practical Microbiology and Infectious Diseases: the effect of antimicrobial agents on the growth of microorganisms, by selecting and applying knowledge of microorganisms and infectious diseases

Diseases, Disorders, Treatments and Therapies: theoretical knowledge on diseases and disorders, exploring current and future treatments and the role of biological molecules in treatment development

Why study this subject?

- Develop Practical and Laboratory Skills: Emphasis on hands-on skills for diagnosing and investigating health conditions, essential for careers in medical science.
- Understand the Science Behind Healthcare: Connect theory with real-world applications, gaining insight into patient diagnosis, treatment, and disease prevention.
- Prepare for Careers in Healthcare and Science: A foundation for roles in healthcare, laboratory science, and biomedical research, as well as higher education in medical and health sciences.

Why study this subject at Aston?

- Experiences science teacher with practical industry experience and extensive background in science
- Excellent enrichment opportunities including hospital lab visits and external speakers in the healthcare professions.

Assessment

The assessment is a blend of internally assessed coursework and externally set exams.

Units 1: Externally assessed 1 hour 30 minutes exam covering the knowledge and understanding of the underpinning principles of human physiology, anatomy and pathology,

Unit 2 : Externally assessed 2 hour exam assessing the understanding of health issues, associated initiatives and reporting.

Units 4 and 5: Internally assessed coursework on practical microbiology and diseases and future treatment

Links particularly well with these subjects

Biology, Chemistry, Health and Social Care, Applied Science, Psychology, Maths

Entry requirements

Grade 4 or above in Science (combined or individual sciences) and Mathematics.

Useful for careers in....

Medical Science is especially useful for careers in Biomedical Science, Healthcare Science, Radiography, Nursing, Laboratory Technician, Epidemiology, Pharmacology, and Public Health.