Subject specific learning outcomes

Specific skills and knowledge appropriate to the degree title

In addition to the core learning outcomes specified in the Degree Accreditation Handbook, specific outcomes have been developed by Learned Societies across the key areas of the biosciences.

Degrees using 'Biochemistry' in their title

The **Biochemical Society** suggests that the graduates of a biochemistry degree programme should be able to:

- demonstrate an understanding of the chemistry, structure and function of biological molecules
- explain biological mechanisms, such as the processes and control of bioenergetics and metabolism, as chemical reactions
- explain the biochemical processes that underlie the relationship between genotype and phenotype
- demonstrate an understanding of the structure and function of both prokaryotic and eukaryotic cells (including the molecular basis and role of subcellular compartmentalization)
- apply laboratory-orientated numerical calculations (e.g. inter-conversion of masses, moles, and molarity, preparation of solutions and accurate dilutions)
- be capable in data visualization and analysis, including the application of data transformations (e.g. logarithmic, exponential)
- demonstrate an understanding of the principles, and have practical experience of, a wide range of biochemical techniques (e.g. basic molecular biology, cell biology and microbiology methods, spectrophotometry, the use of standards for quantification, enzyme kinetics; macromolecular purification, chromatography and electrophoresis)
- analyse biochemical data, (e.g. in enzyme kinetics, molecular structure analysis and biological databases)