

# BSC (HONS) BIOTECHNOLOGY

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## Programme Learning Outcomes

Programme Learning Outcomes for BSc in Biotechnology (NFQ Level 8, Major Award)

On successful completion of this programme, students should be able to:

- Discuss the key principles and concepts underpinning the discipline of Biotechnology;
- Describe the role of modern and traditional biotechnology in society and critically analyse future biotechnological developments of relevance to society;
- Apply the basic principles of process engineering and unit operations to biological processes;
- Explain the role and applications of microbes in the biotechnology industry;
- Discuss the role of recombinant DNA technology and protein science in modern biotechnology;
- Critically assess recent and ongoing developments in biotechnology research and effectively communicate scientific knowledge both orally and in writing;
- Apply fundamental laboratory procedures for applications in research, in medical and/or industrial laboratories;
- Apply the scientific method of investigation and hypothesis testing, including the development of theoretical and practical skills, in the design and execution of experiments;
- Demonstrate appropriate scientific proficiency for entry into further postgraduate education/research or for employment in government, academic or industrial positions.