



## **Programme Specification**

### **Applied Transfusion and Transplantation Science**

**[Sep][FT][Frenchay][1yr]**

Version: 2021-22, v1.2, 09 Jun 2021

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## Section 1: Key Programme Details

### Part A: Programme Information

**Programme title:** Applied Transfusion and Transplantation Science

[Sep][FT][Frenchay][1yr]

**Highest award:** MSc Applied Transfusion and Transplantation Science

**Interim award:** PGCert Applied Transfusion and Transplantation Science

**Interim award:** PGCert Applied Transfusion Science

**Interim award:** PGCert Applied Transplantation Science

**Interim award:** PGCert Clinical Services and Development

**Interim award:** PGDip Applied Transfusion and Transplantation Science

**Interim award:** PGDip Applied Transfusion Science

**Interim award:** PGDip Applied Transplantation Science

**Interim award:** PGDip Clinical Services and Development

**Awarding institution:** UWE Bristol

**Affiliated institutions:** NHS Blood and Transplant

**Teaching institutions:** NHS Blood and Transplant, UWE Bristol

**Study abroad:** No

**Year abroad:** No

**Sandwich year:** No

**Credit recognition:** No

**Department responsible for the programme:** HAS Dept of Applied Sciences,  
Faculty of Health & Applied Sciences

**Contributing departments:** Not applicable

**Professional, statutory or regulatory bodies:** Not applicable

**Apprenticeship:** Not applicable

**Mode of delivery:** Full-time

**Entry requirements:** For the current entry requirements see the UWE public website

**For implementation from:** 01 September 2021

**Programme code:** C99S12-SEP-FT-FR-C99S12

## **Section 2: Programme Overview, Aims and Learning Outcomes**

### **Part A: Programme Overview, Aims and Learning Outcomes**

**Overview:** The MSc in Applied Transfusion and Transplantation Science has been developed to address the current skills gap and shortage of specialists in transfusion and transplantation throughout the UK and beyond, cultivating scientists and future leaders in this field.

This programme is delivered as a one year full-time or two year part-time postgraduate programme, delivered in partnership between UWE Bristol and NHS Blood and Transplant (NHSBT). Additionally, several of the modules (Applied Transfusion, Applied Transplantation, Management of Clinical Services, Research Methodology and Statistics) can be undertaken individually as standalone Continuing Professional Development (CPD) courses.

The unique partnership between UWE and NHSBT provides an ideal environment for this programme, combining excellence in teaching with current practice-led real-world expertise with internationally-renowned research. NHSBT manage all blood donation and provision of blood to hospitals throughout England, alongside tissue, stem cell and organ donation and transplant services for the whole of the UK. NHSBT also performs Diagnostic and Therapeutic services for NHS and private patients, and others such as the Ministry of Defence. A world-leading research programme and clinical trials continually seek to improve safety and inform best practice guidelines nationally and internationally. Complementing this, UWE's

thriving collaborative networks between the Faculty of Health of Applied Sciences and other Faculties, provide scientific and healthcare expertise, and state-of-the-art technology, combined with established delivery of blended learning approaches. This collaborative approach is emphasised and valued throughout the programme, with taught material and assessments delivered by experts at both Institutions.

The degree offers the opportunity to gain advanced knowledge in both transfusion and transplantation science and its application to real-life clinical scenarios. You will develop real-world skills in laboratory management, and cultivate business development skills within health technology, taking an idea through the design, development and implementation process. The extended research project offers flexibility to work alongside experts on cutting-edge projects, or alternatively using the expertise in your place of work, giving the opportunity to adapt your degree to best suit your needs and career goal.

**Educational Aims:** This programme aims to provide:

Opportunities to develop skills needed in a clinical laboratory environment, including leadership and management and quality management systems

Learning experiences to enable students to gain specialist knowledge in transfusion and transplantation science applied to the clinical setting

An appreciation of relevant regulatory bodies and frameworks governing transfusion and transplantation

Opportunities for students to apply their knowledge towards addressing real world global challenges

Opportunities within a research project setting to further develop laboratory skills, as well as data analysis, critical analysis and synthesis of information from published literature.

**Programme Learning Outcomes:**

**Programme Learning Outcomes**

- PO1. Apply in-depth knowledge to case study-based scenarios, demonstrating advanced level understanding of the biology and processes involved in transfusion and transplantation
- PO2. Appreciate the regulatory frameworks governing the transfusion and transplantation fields and how these apply to the provision, management and enhancement of a clinical service
- PO3. Provide students with an understanding of business plans, enabling them to create plans and presentations that showcase innovation and leadership
- PO4. Appreciate the principles of Research Governance and its importance in healthcare-based research and practice
- PO5. Interpret quantitative research data and methodology, and apply appropriate statistical techniques in research
- PO6. Demonstrate skills in project, time and self-management to successfully complete a research project
- PO7. Critically evaluate current and future techniques and practice within transfusion and transplantation settings
- PO8. Demonstrate the ability to draw valid conclusions based on experimental outcomes or implementing changes in current practice, and critically assess the contributions of these outcomes to existing research or clinical practice

**Part B: Programme Structure****Year 1**

MSc Applied Transfusion and Transplantation Science:

The student must complete all 180 credits.

PGDip Applied Transfusion and Transplantation Science:

The student must complete 120 credits including Applied Transfusion Science and Applied Transplantation Science.

PGDip Applied Transfusion Science:

The student must complete 120 credits including Applied Transfusion Science.

PGDip Applied Transplantation Science:

The student must complete 120 credits including Applied Transplantation Science.

PGDip Clinical Services and Development:

The student must complete 120 credits, not including Applied Transfusion Science or Applied Transplantation Science.

PGCert Applied Transfusion Science:

The student must complete 60 credits including Applied Transfusion Science.

PGCert Applied Transplantation Science:

The student must complete 60 credits including Applied Transplantation Science.

PGCert Applied Transfusion and Transplantation Science:

The student must complete 60 credits including Applied Transfusion Science and Applied Transplantation Science.

PGCert Clinical Services and Development:

The student must complete 60 credits, not including Applied Transfusion Science or Applied Transplantation Science.

<b>Module Code</b>	<b>Module Title</b>	<b>Credit</b>
USSJNK-30-M	Applied Transfusion Science 2021-22	30
USSJPJ-30-M	Applied Transplantation Science 2021-22	30
USSJM6-15-M	Enterprise and Innovation 2021-22	15
USSJQ8-30-M	Management of Clinical Services 2021-22	30

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USSJQB-15-M	Research Methodology and Statistics 2021-22	15
USSJ6C-60-M	Research Project 2021-22	60

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**Part C: Higher Education Achievement Record (HEAR) Synopsis**

Successful graduates will have developed an in-depth knowledge of applied transfusion and transplantation science, set within the context of current regulatory frameworks, existing practise and real-world healthcare challenges. Graduates will have benefitted from working with both academic and practice-based leaders in the field. The applied nature of each module, will have enabled analytical and critical evaluation skills to be developed, crucial for a range of careers. Development of transferrable and leadership skills will have equipped students with a skill set critical for many advanced scientific and management roles, fostering leaders of the future in this field.

**Part D: External Reference Points and Benchmarks**

The learning outcomes for this programme have been designed according to the QAA Framework for Higher Education Qualifications. In addition, the following have also been carefully considered:

HCPC Standards of Proficiency for Biomedical Scientists (2014)

QAA subject Benchmark Statement for Biomedical Sciences (October 2019)

UK quality Code for Higher Education (October 2014)

BBTS Specialist Certificate in Transfusion Science Practice.

IBMS Specialist Diploma in 'Transfusion Science', and 'Histocompatibility and Immunogenetics'.

IBMS Higher Specialist Diploma Indicative syllabus, for 'Histocompatibility and

Immunogenetics', 'Transfusion Science' and 'Laboratory Management and Leadership' (January 2018)

'UWE Bristol Strategy 2030, aligning particularly with the inclusivity and collaborative focus, with this programme contributing to the key priority areas for course development in 'health and wellbeing', 'meeting the needs of an ageing society' and 'digital futures and creative technologies'.

A survey, which included responses from a range of managers in NHSBT and the wider NHS, was developed with collaborative input from both industry experts and current managers of Transfusion and Transplantation laboratories to ensure that the course provides students with the skills that employers are seeking.

Staff research projects (including at NHSBT, and potential types of projects that could be offered in practice elsewhere, e.g. to students employed in the wider NHS).

### **Part E: Regulations**

Approved to University Regulations and Procedures.