**Integrated PhD Life Sciences Optional Module Choice form**

As part of the ‘Integrated PhD Life Sciences’ programme you will register for an optional module in a subject area of your interest (subject specific module 20 credits). To ensure your application is processed in your chosen field please follow these steps:

1. Make sure you have read the module outlines provided in [the programme modules information](https://preview.birmingham.ac.uk/Preview/1/postgraduate/courses/research/med/iDTP.aspx) section of the course website
2. Select your **top two preferred choices** of optional modules in the boxes below and indicate your 1st and 2nd preference. Please choose one 1st choice and one 2nd choice module. You only need to selection two modules in total.
3. Upload this form to the supporting documents tab in the application portal

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| --- | --- |
| **Name:** |  |
| **Application ID number:** |  |

|  |  |  |
| --- | --- | --- |
| ***Applied Health Research and Healthcare Management*** |  |  |
| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Introduction to Health Economics |  |  |
| Epidemiology, Statistics and Research Methods |  |  |

***Biomedical Sciences***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Cardiovascular Biology |  |  |
| Cellular Neurobiology |  |  |
| Introduction to Trauma Sciences |  |  |
| Metabolism and Excretion of Xenobiotics |  |  |
| Neurotrauma |  |  |

***Bioinformatics***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Data Analytics & Statistical Machine Learning |  |  |
| Genomics & Next Generation Sequencing |  |  |

***Cancer and Genomics***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Cellular and molecular basis of cancer |  |  |
| Fundamentals in Human Genetics and Genomics |  |  |
| Molecular pathology and stratified cancer |  |  |
| Palliative care and the cancer patient |  |  |

***Dentistry***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Ceramic and Cement Systems |  |  |
| Foundation in Materials Sciences |  |  |
| Introduction to Restorative Dentistry |  |  |

***Immunology and Infection***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Intro in Immunology with Molecular Mechanism in Immune Cell Differentiation & Function |  |  |
| Intro in Immunology with Tumour Autoimmunity & Transplant Immunology |  |  |
| Medical Microbiology |  |  |

***Microbiology and Infection***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Core concepts and skills in Microbiology |  |  |
| Medical Microbiology |  |  |
| Antibiotics: past, present and future |  |  |
| Principles of Host-Pathogen Interactions |  |  |
| Antibiotics, Microbial Surfaces and Surface Interactions |  |  |
| Omics of Pathogens |  |  |

***Molecular Biotechnology***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Introduction to Biotechnology: From genes to products |  |  |
| Research Techniques in Molecular Biotechnology |  |  |
| Practical Applications of Molecular Biotechnology |  |  |
| Pharmaceuticals and Therapeutic Biologicals from Bench to Market |  |  |
| Funding and Communicating Science |  |  |
| Functional Genomics and Reverse Genetics |  |  |

***Sport, Exercise and Rehabilitation Sciences***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Research Methodology in Sport, Exercise and Rehabilitation |  |  |
| Neuromuscular Adaptation to Training |  |  |
| Musculoskeletal Trauma and Rehabilitation |  |  |

***Toxicology***

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| **Subjects and corresponding optional modules**  | **1st choice** | **2nd choice** |
| Metabolism and Mechanisms of Toxicity |  |  |
| Forensic Clinical and Occupational Toxicology |  |  |
| Assessing Toxic Potential |  |  |
| Regulatory Science and Toxicology for the 21st Century |  |  |

**For non-laboratory projects (Applied Health Research and Healthcare Management) you will need to choose a 1st and 2nd preference from the following research methods modules:**

|  |  |  |
| --- | --- | --- |
|  | 1st choice | 2nd choice |
| Economic Evaluation in Healthcare |  |  |
| Practical epidemiology and statistics |  |  |
| Health information, health informatics |  |  |

**Laboratory based projects will undertake the following research methods module:**

Research Techniques in Molecular Biotechnology (20 credits)

Please upload this document as part of your application.

Any missing documentation will delay the progressing of your application.