**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.
3. Upload this form to the supporting documents tab in the application portal

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

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| --- | --- | --- |
| ***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.