



December 2021

## Mapping of Graduate School Doctoral Courses to Professional Competencies for Membership and CBiol

Requirements: M = Mandatory, O = Optional and R = Recommended

M<sup>1</sup> = Recommended for appointed student representatives

| Programme Group & Course Title:   | Mapping | Year                             | CBiol Comp. |
|---|---------|----------------------------------|-------------|
| <b>Research Communication Programme:</b>  |         |                                  |             |
| Thesis Writing Retreat  | O       | 3 <sup>rd</sup>                  | 10          |
| Developing and producing your research: A Scientific Approach to Research Communication       | O       | 1 <sup>st</sup>                  | 10          |
| Developing and producing your research: Literature Review                                     | M       | 1 <sup>st</sup>                  | 11          |
| Developing and producing your research: Publication (BEPS/MLSPD)                              | O       | Any                              | 10          |
| Developing and producing your research: Thesis  | M       | 2 <sup>nd</sup> /3 <sup>rd</sup> | 10          |
| Developing and producing your research: Grant Applications                                    | O       | Any                              | 12          |
| Developing and producing your research: Understanding the Manuscript Review Process           | O       | Any                              | 11          |
| Developing and producing your research: Critical Thinking for communication                   | O       | Any                              | 11          |
| Perfecting Presentations: Poster Top Tips   | O       | 1 <sup>st</sup>                  | 10          |
| Perfecting Presentations: Present your Poster!  | M       | 1 <sup>st</sup>                  | 10          |
| Perfecting Presentations: Conferences and Seminars  | M       | 2 <sup>nd</sup>                  | 10          |
| Perfecting Presentations: Advanced Presentations  | M       | 3 <sup>rd</sup>                  | 10          |
| Mini-retreat for AFHEA Applications and Thesis Writing  | O       | 3 <sup>rd</sup>                  | 10          |
| Preparing for thesis submission, examination and Open Access Q&A: everything you need to know | O       | 3 <sup>rd</sup> /4 <sup>th</sup> | 10          |
| <b>Research Impact Programme</b>  |         |                                  |             |
| Impact & Influence Retreat  | O       | 2 <sup>nd</sup>                  | 12          |
| Impact in Academia: Building your Research Profile and Vision                                 | R       | 2 <sup>nd</sup> /3 <sup>rd</sup> | 12          |
| Impact in Academia: Understanding UK Higher Education landscape                               | O       | Any                              | 12          |
| Impact in Academia: Making an Impact  | R       | 2 <sup>nd</sup> /3 <sup>rd</sup> | 12          |
| Impact in Academia: Understanding and Developing Assertiveness (Moved programme)              | O       | Any                              | 12          |
| Impact in Academia: Alternative ways to measure your research impact                          | O       | 2 <sup>nd</sup> /3 <sup>rd</sup> | 12          |
| Societal Engagement: Public Engagement  | O       | Any                              | 4           |
| Societal Engagement: Public Involvement in Medical Research                                   | O       | Any                              | 4           |
| Societal Engagement: Communicating Research in Schools  | O       | Any                              | 4           |
| Societal Engagement: Evaluating Engagement  | O       | Any                              | 4           |
| Societal Engagement: Patient and Public Involvement in Research                               | O       | Any                              | 4           |
| <b>Research Computing &amp; Data Science Programme</b>  |         |                                  |             |
| Data Science: Basic Statistics  | R       | Any                              | 7           |
| Data Science: Data processing with Python pandas  | O       | Any                              | 7           |
| Data Science: Data exploration and visualisation  | R       | Any                              | 7           |
| Data Science: Data Processing with R  | O       | Any                              | 7           |



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| Data Science: Further Hypothesis Testing                                       | O              | Any             | 7    |
| Data Science: Introduction to Machine Learning                                 | O              | Any             | 7    |
| Data Science: Introduction to Sampling & Hypothesis Testing                    | O              | Any             | 7    |
| Data Science: Introduction to Statistics Using SPSS.                           | O              | Any             | 7    |
| Data Science: Machine Learning with Python                                     | O              | Any             | 7    |
| Data Science: R programming  | O              | Any             | 7    |
| Data Science: Regression Modelling   | R              | Any             | 7    |
| Research Computing: Introduction to C++  | O              | Any             | 6    |
| Research Computing: Introduction to Fortran                                    | O              | Any             | 6    |
| Research Computing: Introduction to HPC at Imperial                            | O              | Any             | 6    |
| Research Computing: Introduction to Julia                                      | O              | Any             | 6    |
| Research Computing: Introduction to LaTeX                                      | R              | Any             | 6    |
| Research Computing: Introduction to MATLAB                                     | R <sup>3</sup> | Any             | 6    |
| Research Computing: Introduction to Python                                     | R <sup>3</sup> | Any             | 6    |
| Research Computing: The Linux Command Line for Scientific Computing            | O              | Any             | 6    |
| Research Computing: Essential Software Engineering for Researchers             | O              | Any             | 6/7  |
| Research Computing: Numerical Computing in Python with NumPy & SciPy           | O              | Any             | 6/7  |
| Research Computing: Object-Oriented Python                                     | O              | Any             | 6/7  |
| Research Computing: Plotting in Python with Matplotlib                         | O              | Any             | 6/7  |
| Research Computing: Profiling and Optimisation in Python                       | O              | Any             | 6/7  |
| Research Computing: Reproducible & Scalable Research Computing with Containers | O              | Any             | 6/7  |
| Research Computing: Using Git to code, collaborate and share                   | O              | Any             | 6    |
| Research Computing: Writing Theses in LaTeX                                    | R              | Any             | 6    |
| <b>Research Integrity Programme</b>  |                |                 |      |
| Ensuring Integrity: Plagiarism Awareness                                       | M              | 1 <sup>st</sup> | 3    |
| Ensuring Integrity: Intellectual Property (face-to-face/online)                | O              | Any             | 3    |
| Ensuring Integrity: Copyright for Researchers                                  | M              | Any             | 3    |
| Ensuring Integrity: Introduction to making your thesis open access             | O              | Any             | 4/10 |
| Ensuring Integrity: Science, Research and Integrity                            | M              | Any             | 3    |
| Information Landscape: Information Retrieval                                   | O              | Any             | 11   |
| Information Landscape: EndNote   | O              | Any             | 7    |
| Information Landscape: Introducing the Web of Science Database                 | O              | Any             | 7    |
| Information Landscape: Keeping Your Research Up to Date                        | M              | Any             | 7    |
| Information Landscape: Data Management LIBRARY                                 | M              | 2 <sup>nd</sup> | 7    |
| Webinar: Information Landscape: Research Data Management Plans LIBRARY         | O              | Any             | 7    |
| Introduction to Philosophy - Knowledge, Truth and Science?                     | O              | Any             | 11   |
| <b>Professional Effectiveness Programme</b>                                    |                |                 |      |
| Maximising your Management Skills: Becoming an Effective Researcher            | M              | 1 <sup>st</sup> | 5    |
| Maximising Your Management Skills: Time Management for your Doctorate          | M              | 1 <sup>st</sup> | 8    |



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|---|----------------|----------------------------------|------|
| Maximising Your Management Skills: Put Project Management into Action   | M              | 1 <sup>st</sup>                  | 9    |
| Maximising Your Management Skills: Planning & Preparing for your Thesis & Viva  | O              | Any                              | 9/10 |
| Teams & Communication Retreat   | M              | 1 <sup>st</sup>                  | 5    |
| Understanding Yourself and Others: Introduction to MBTI   | O              | Any                              | 5    |
| Understanding Yourself and Others: Introduction to the Clifton Strengths Finder   | O              | Any                              | 6    |
| Understanding Yourself and Others: Enhancing Wellbeing for Doctoral Researchers   | M              | 2 <sup>nd</sup>                  | 3    |
| Understanding Yourself and Others: Academic Resilience  | O              | Any                              | 3    |
| Understanding Yourself and Others: Enhancing your Leadership Skills   | M              | 2 <sup>nd</sup> /3 <sup>rd</sup> | 12   |
| Understanding Yourself and Others: Understanding and Developing Assertiveness   | O              | Any                              | 12   |
| Understanding Yourself and Others: It's your PhD: Managing the Supervisor-Student Partnership   | O              | 1 <sup>st</sup>                  | 5/9  |
| Understanding Yourself & Others: Introduction to Unconscious Bias   | R              | 1 <sup>st</sup>                  | 5    |
| <b>Professional Progression</b>   |                |                                  |      |
| Finish Up Move On + (FUMO)  | M              | 3 <sup>rd</sup>                  | 6    |
| Progression for your PhD and beyond: Networking for Progressing Your PhD  | M              | 2 <sup>nd</sup> /3 <sup>rd</sup> | 6/12 |
| Progression for your PhD and beyond: Negotiation for Your Doctorate and Beyond  | O              | Any                              | 11   |
| Progression for your PhD and beyond: Maintaining your Motivation and Building Independence  | M              | 2 <sup>nd</sup>                  | 9    |
| Progression for your PhD and beyond: Thinking about doing a postdoc?  | O              | 2 <sup>nd</sup> /3 <sup>rd</sup> | 6    |
| Progression for your PhD and beyond: Ask the Doctor: your Chance to Chat with a Doctoral Graduate at Work   | O              | 2 <sup>nd</sup> /3 <sup>rd</sup> | 6    |
| Careers: An Introduction to Career Planning for 1st Year PhDs: Business, Engineering & Physical Sciences<br>Or<br>Careers: An Introduction to Career Planning for 1st Year PhDs: Life Sciences & Medicine | M              | 1 <sup>st</sup>                  | 6    |
| Careers: Effective CVs and Applications   | O              | Any                              | 6    |
| Careers: Job Search with a Difference   | O              | Any                              | 6    |
| Careers: Preparing for Interviews   | O              | Any                              | 6    |
| <b>Graduate Teaching Assistants (GTA) Programme</b>   |                |                                  |      |
| Introduction to Learning and Teaching   | O              | Any                              | 6    |
| Introduction to Assessment and Feedback for assessment  | O              | Any                              | 6    |
| Promoting Active Learning in Labs   | O              | Any                              | 6    |
| Microteaching   | O              | Any                              | 6    |
| Applying for AFHEA  | O              | Any                              | 6/12 |
| GTA Retreat   | O              | Any                              | 6    |
| <b>PG REP Programme</b>   |                |                                  |      |
| Negotiation skills for Postgraduate Representatives   | M <sup>1</sup> | Any                              | 11   |



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|---|----------------|-----------------|------|
| Chairing Meetings for Postgraduate Representatives          | M <sup>1</sup> | Any             | 5/12 |
| Assertiveness for Postgraduate Representatives              | M <sup>1</sup> | Any             | 12   |
| Postgraduate Well-being: Help your Peers                    | M <sup>1</sup> | Amy             | 3/5  |
| <b>Online Courses</b>                                       |                |                 |      |
| Plagiarism Awareness  | M              | 1 <sup>st</sup> | 3    |
| Copyright for Researchers                                   | O              | 1 <sup>st</sup> | 3    |
| <b>Discipline / Departmental / Imperial Safety Training</b> |                |                 |      |
| Local Safety Courses and Departmental requirements          | M              | 1 <sup>st</sup> | 2    |