



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

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

M¹ = Recommended for appointed student representatives

Programme Group & Course Title:	Mapping	Year	CBiol. Comp.
Research Communication Programme:			
Thesis Writing Retreat	O	3 rd	10
A Scientific Approach to Research Communication	O	1 st	10
Literature Review	M	1 st	11
Publication (BEPS/MLSPD)	O	Any	10
Thesis	M	2 nd /3 rd	10
Grant Applications	O	Any	12
Critical Thinking for communication	O	Any	11
Poster Top Tips	O	1 st	10
Present your Poster!	M	1 st	10
Conferences and Seminars	M	2 nd	10
Advanced Presentations	M	3 rd	10
Preparing for thesis submission, examination and Open Access Q&A	O	3 rd /4 th	10
Research Impact Programme			
Understanding Impact and How to Achieve It	R	2 nd /3 rd	12
Bibliometrics and Demonstrating Academic Impact	O	2nd/3rd	12
Communicating Research in Schools	O	Any	4
Publishing Open Access: Your Research and Thesis	O	Any	4/10
Core Public Engagement MasterClass: Exploring Planning and Evaluating Engagement	O	Any	4
Preprints and Open Peer Review	O	Any	10
Research Computing & Data Science Programme			
Basic Statistics	R	Any	7
Data Processing with Python Pandas	O	Any	7
Data Exploration and Visualisation	R	Any	7
Data Processing with R	O	Any	7
Further Hypothesis Testing	O	Any	7
Introduction to Machine Learning	O	Any	7
Introduction to Sampling & Hypothesis Testing	O	Any	7
Introduction to Statistics Using SPSS.	O	Any	7
Machine Learning with Python	O	Any	7
Introduction to R	O	Any	7
Regression Modelling in R	R	Any	7
Introduction to C++	O	Any	6
Introduction to Fortran	O	Any	6
Introduction to HPC at Imperial	O	Any	6



Introduction to Julia	O	Any	6
Introduction to LaTeX	R	Any	6
Introduction to MATLAB	R ³	Any	6
Introduction to Python (online)	R ³	Any	6
The Linux Command Line for Scientific Computing	O	Any	6
Essential Software Engineering for Researchers	O	Any	6/7
Numerical Computing in Python with NumPy & SciPy	O	Any	6/7
Object-Oriented Python	O	Any	6/7
Plotting in Python with Matplotlib	O	Any	6/7
Profiling and Optimisation in Python	O	Any	6/7
Reproducible & Scalable Research Computing with Containers	O	Any	6/7
Using Git to code, collaborate and share	O	Any	6
Writing Theses in LaTeX	R	Any	6
Research Integrity Programme			
Plagiarism Awareness	M	1 st	3
Intellectual Property (online)	O	Any	3
Copyright for Researchers	M	Any	3
Science, Research and Integrity	M	Any	3
Information Retrieval	O	Any	11
EndNote	O	Any	7
Introducing the Web of Science Database	O	Any	7
Keeping Your Research Up to Date	M	Any	7
Research Data Management	M	2 nd	7
Research Data Management Plans LIBRARY	O	Any	7
Introduction to Philosophy	O	Any	11
Professional Effectiveness Programme			
Becoming an Effective Researcher	M	1 st	5
Time Management for your Doctorate	M	1 st	8
Putting Project Management into Action	M	1 st	9
Planning & Preparing for your Thesis & Viva	O	Any	9/10
Teams & Communication Retreat	M	1 st	5
Introduction to MBTI	O	Any	5
Introduction to the Clifton Strengths Finder	O	Any	6
Enhancing Wellbeing for Doctoral Researchers	M	2 nd	3
Academic Resilience	O	Any	3
Enhancing your Leadership Skills	M	2 nd /3 rd	12
Understanding and Developing Assertiveness	O	Any	12
Introduction to Unconscious Bias	R	1 st	5
Professional Progression			
Finish Up Move On + (FUMO)	M	3 rd	6
Networking for Progressing Your PhD	M	2 nd /3 rd	6/12
Negotiation for Your Doctorate and Beyond	O	Any	11
Maintaining your Motivation and Building Independence	M	2 nd	9
Thinking about Doing a Postdoc?	O	2 nd /3 rd	6
Ask the Doctor: your Chance to Chat with a Doctoral Graduate at Work	O	2 nd /3 rd	6



An Introduction to Career Planning for 1st & 2 nd Year PhDs: Business, Engineering & Physical Sciences Or An Introduction to Career Planning for 1st & 2 nd Year PhDs: Life Sciences & Medicine	M	1 st	6
Effective CVs and Applications	O	Any	6
Strategic Job Searching	O	Any	6
Preparing for Interviews	O	Any	6
Graduate Teaching Assistants (GTA) Programme			
Introduction to Learning and Teaching	O	Any	6
Introduction to Assessment and Feedback for Learning	O	Any	6
Promoting Active Learning in Labs	O	Any	6
Microteaching	O	Any	6
Applying for Associate Fellowship (AFHEA)	O	Any	6/12
GTA Retreat	O	Any	6
PG REP Programme			
Negotiation skills for Postgraduate Representatives	M ¹	Any	11
Chairing Meetings for Postgraduate Representatives	M ¹	Any	5/12
Assertiveness for Postgraduate Representatives	M ¹	Any	12
Postgraduate Well-being: Help your Peers	M ¹	Any	3/5
Discipline / Departmental / Imperial Safety Training			
Local Safety Courses and Departmental requirements	M	1 st	2