



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

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

M¹ = Recommended for appointed student representatives

Programme Group & Course Title:	Mapping	Year	CChem Comp.		
Research Communication Programme:					
Thesis Writing Retreat	O	3 rd	C1	A4	
Developing and producing your research: A Scientific Approach to Research Communication	O	1 st	C1	A4	
Developing and producing your research: Literature Review	M	1 st	C1	A4	
Developing and producing your research: Publication (BEPS/MLSPD)	O	Any	C1	A4	
Developing and producing your research: Thesis	M	2 nd /3 rd	C1	A4	
Developing and producing your research: Grant Applications	O	Any	C1	A4	
Developing and producing your research: Understanding the Manuscript Review Process	O	Any	C1	A4	
Developing and producing your research: Critical Thinking for communication	O	Any	C1	A4	
Perfecting Presentations: Poster Top Tips	O	1 st	C1	C2	
Perfecting Presentations: Present your Poster!	M	1 st	C1	C2	
Perfecting Presentations: Conferences and Seminars	M	2 nd	C1	C2	
Perfecting Presentations: Advanced Presentations	M	3 rd	C1	C2	
Mini-retreat for AFHEA Applications and Thesis Writing	O	3 rd	C1	A4	
Preparing for thesis submission, examination and Open Access Q&A: everything you need to know	O	3 rd /4 th	C1	A4	
Research Impact Programme					
Impact & Influence Retreat	O	2 nd	C1	C3	C2
Impact in Academia: Building your Research Profile and Vision	R	2 nd /3 rd	C3		
Impact in Academia: Understanding UK Higher Education landscape	O	Any	C3		
Impact in Academia: Making an Impact	R	2 nd /3 rd	C3		
Impact in Academia: Understanding and Developing Assertiveness (Moved programme)	O	Any	C3	C2	C1
Impact in Academia: Alternative ways to measure your research impact	O	2 nd /3 rd	C3		
Societal Engagement: Public Engagement	O	Any	C1	C2	E
Societal Engagement: Public Involvement in Medical Research	O	Any	C1	C2	E
Societal Engagement: Communicating Research in Schools	O	Any	C1	C2	E
Societal Engagement: Evaluating Engagement	O	Any	C1	C2	E
Societal Engagement: Patient and Public Involvement in Research	O	Any	C1	C2	E
Research Computing & Data Science Programme					
Data Science: Basic Statistics	R	Any	A4	A3	



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Data Science: Data processing with Python pandas	O	Any	A4	A3	
Data Science: Data exploration and visualisation	R	Any	A4	A3	
Data Science: Data Processing with R	O	Any	A4	A3	
Data Science: Further Hypothesis Testing	O	Any	A4	A3	
Data Science: Introduction to Machine Learning	O	Any	A4	A3	
Data Science: Introduction to Sampling & Hypothesis Testing	O	Any	A4	A3	
Data Science: Introduction to Statistics Using SPSS.	O	Any	A4	A3	
Data Science: Machine Learning with Python	O	Any	A4	A3	
Data Science: R programming	O	Any	A4	A3	
Data Science: Regression Modelling	R	Any	A4	A3	
Research Computing: Introduction to C++	O	Any	A3	A2	
Research Computing: Introduction to Fortran	O	Any	A3	A2	
Research Computing: Introduction to HPC at Imperial	O	Any	A3	A2	
Research Computing: Introduction to Julia	O	Any	A3	A2	
Research Computing: Introduction to LaTeX	R	Any	A3	A2	
Research Computing: Introduction to MATLAB	R ³	Any	A3	A2	
Research Computing: Introduction to Python	R ³	Any	A3	A2	
Research Computing: The Linux Command Line for Scientific Computing	O	Any	A3	A2	
Research Computing: Essential Software Engineering for Researchers	O	Any	A3	A4	A2
Research Computing: Numerical Computing in Python with NumPy & SciPy	O	Any	A3	A4	A2
Research Computing: Object-Oriented Python	O	Any	A3	A4	A2
Research Computing: Plotting in Python with Matplotlib	O	Any	A3	A4	A2
Research Computing: Profiling and Optimisation in Python	O	Any	A3	A4	A2
Research Computing: Reproducible & Scalable Research Computing with Containers	O	Any	A3	A4	A2
Research Computing: Using Git to code, collaborate and share	O	Any	A3	A2	
Research Computing: Writing Theses in LaTeX	R	Any	A3	A2	
Research Integrity Programme					
Ensuring Integrity: Plagiarism Awareness	M	1 st	B1	A3	A2
Ensuring Integrity: Intellectual Property (face-to-face/online)	O	Any	B1	A3	A2
Ensuring Integrity: Copyright for Researchers	M	Any	B1	A3	A2
Ensuring Integrity: Introduction to making your thesis open access	O	Any	B1	A3	A2
Ensuring Integrity: Science, Research and Integrity	M	Any	B1	A3	A2
Information Landscape: Information Retrieval	O	Any	B1	A2	
Information Landscape: EndNote	O	Any	B1	A2	
Information Landscape: Introducing the Web of Science Database	O	Any	B1	A2	
Information Landscape: Keeping Your Research Up to Date	M	Any	B1	A2	
Information Landscape: Data Management LIBRARY	M	2 nd	B1	A2	



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Webinar: Information Landscape: Research Data Management Plans LIBRARY	O	Any	B1	A2	
Introduction to Philosophy - Knowledge, Truth and Science?	O	Any	B1	A2	
Professional Effectiveness Programme					
Maximising your Management Skills: Becoming an Effective Researcher	M	1st	B2		
Maximising Your Management Skills: Time Management for your Doctorate	M	1 st	B2		
Maximising Your Management Skills: Put Project Management into Action	M	1 st	B2		
Maximising Your Management Skills: Planning & Preparing for your Thesis & Viva	O	Any	B2		
Teams & Communication Retreat	M	1 st	B3	C2	C1
Understanding Yourself and Others: Introduction to MBTI	O	Any	B3	C1	C3
Understanding Yourself and Others: Introduction to the Clifton Strengths Finder	O	Any	B3	C1	C3
Understanding Yourself and Others: Enhancing Wellbeing for Doctoral Researchers	M	2nd	B1	B3	
Understanding Yourself and Others: Academic Resilience	O	Any	B1	B3	
Understanding Yourself and Others: Enhancing your Leadership Skills	M	2 nd /3 rd	C3	C2	C1
Understanding Yourself and Others: Understanding and Developing Assertiveness	O	Any	B3		
Understanding Yourself and Others: It's your PhD: Managing the Supervisor-Student Partnership	O	1 st	B3		
Understanding Yourself & Others: Introduction to Unconscious Bias	R	1 st	B3		
Professional Progression					
Finish Up Move On + (FUMO)	M	3 rd	A3		
Progression for your PhD and beyond: Networking for Progressing Your PhD	M	2 nd /3 rd	C3	C2	
Progression for your PhD and beyond: Negotiation for Your Doctorate and Beyond	O	Any	C3	C2	
Progression for your PhD and beyond: Maintaining your Motivation and Building Independence	M	2 nd	B2	C3	
Progression for your PhD and beyond: Thinking about doing a postdoc?	O	2nd/3rd	A3		
Progression for your PhD and beyond: Ask the Doctor: your Chance to Chat with a Doctoral Graduate at Work	O	2nd/3rd	A3		
Careers: An Introduction to Career Planning for 1st Year PhDs: Business, Engineering & Physical Sciences Or Careers: An Introduction to Career Planning for 1st Year PhDs: Life Sciences & Medicine	M	1 st	A3		
Careers: Effective CVs and Applications	O	Any	A3		
Careers: Job Search with a Difference	O	Any	A3		



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Careers: Preparing for Interviews	O	Any	A3		
Graduate Teaching Assistants (GTA) Programme					
Introduction to Learning and Teaching	O	Any	C2	E	
Introduction to Assessment and Feedback for assessment	O	Any	C2	E	
Promoting Active Learning in Labs	O	Any	C2	E	
Microteaching	O	Any	C2	E	
Applying for AFHEA	O	Any	C2	E	
GTA Retreat	O	Any	C2	E	
PG REP Programme					
Negotiation skills for Postgraduate Representatives	M ¹	Any	C3	C2	
Chairing Meetings for Postgraduate Representatives	M ¹	Any	C3	C2	
Assertiveness for Postgraduate Representatives	M ¹	Any	C3	C2	
Postgraduate Well-being: Help your Peers	M ¹	Any	D		
Online Courses					
Plagiarism Awareness	M	1 st	B1	A3	A2
Copyright for Researchers	O	1 st	B1	A3	A2
Discipline / Departmental / Imperial Safety Training					
Local Safety Courses and Departmental requirements	M	1 st	D		