# Department of Chemistry Course Listing 2015-16

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| **IS** | **INFORMATION SYSTEMS** |
| **IS1** | **Chemistry Library Orientation** |
| **IS2** | **Electronic Resources in Cambridge** |
| **IS3** | **Research Data Management (RDM)** |
| **IS4** | **Royal Society of Chemistry Resources** |
| **IS5** | **Reaxys and SciFinder: Introduction and Practical Session** |
| **FS** | **FOUNDATION SKILLS** |
| **FS1** | **Successful Completion of a Research Degree** |
| **FS2** | **Scientific Writing: From Pain to Pleasure** |
| **FS3** | **LaTeX** |
| **FS4** | **Integrity and Ethics in Research** |
| **FS5** | **Effective Researchers in Chemistry** |
| **FS6** | **Managing Your Relationship with Your Supervisor** |
| **FS7** | **Equality and Diversity in the University** |
| **FS8** | **Dignity@Study** |
| **FS9** | **Supervising Undergraduates** |
| **CT** | **CHARACTERISATION TECHNIQUES** |
| **CT0** | **Getting the most from our Departmental Characterisation Facilities** |
| **CT1** | **Fundamentals of Mass Spectrometry** |
| **CT2** | **Mass Spectrometry in Structural Biology and Biophysics** |
| **CT3** | **Solution Phase NMR Spectroscopy** |
| **CT4** | **Solid State NMR Spectroscopy** |
| **CT5** | **X-Ray Crystallography** |
| **CT6** | **Electron Microscopy** |
| **CT7** | **Atomic Force Microscopy (AFM)** |
| **CT8** | **Small Angle Scattering Techniques in Soft Matter Nanotechnology: A Local Structure Probe** |
| **BT** | **BIOPHYSICAL TECHNIQUES: THEORY & PRACTICAL APPLICATIONS (MRC-LMB)[1]** |
| **Introduction to Light Microscopy and FRET** | |
| **Confocal Microscopy, Multiphoton Microscopy and FCS** | |
| **Single Molecule Fluorescence & Super Resolution Microscopy** | |
| **Protein Labeling for Microscopy and Fluorescence Studies** | |
| **Fluorescence Spectroscopy & Microscale Thermophoresis** | |
| **Single Molecule Spectroscopy** | |
| **Introduction to Biomolecular NMR** | |
| **Advanced NMR Applications** | |
| **Biomolecular Thermodynamics and Calorimetry (ITC)** | |
| **Surface Plasmon Resonance (Biacore)** | |
| **Light Scattering Techniques** | |

[1] These lectures usually run from the end of January until the end of March from 11am-noon on a Tuesday and Thursday at the MRC-LMB.

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| **Small Angle X-ray Scattering** | |
| **Flow Cytometry** | |
| **Analytical Ultracentrifugation (AUC)** | |
| **Bioinformatics** | |
| **Curve Fitting, Errors and Analysis of Binding Data** | |
| **Mass Spectrometry** | |
| **Biophysical Techniques Mini Symposium** | |
| **AO** | **ADVANCED ORGANIC CHEMISTRY** |
| **AO1** | **MOs in Chemical Reactions – Pericyclic Reactions** |
| **AO2** | **Advanced Enolate Chemistry** |
| **AO3** | **Alkenes in Organic Synthesis** |
| **AO4** | **Advanced Heterocyclic Chemistry** |
| **AO5** | **Fundamentals of Non-Covalent Chemistry** |
| **AO6** | **Dynamic Covalent Chemistry: A Tool For Synthesis, Molecular Recognition And Understanding Systems Behaviour** |
| **AO7** | **Calculating Organic Syntheses** |
| **AO8** | **Focus (I): Organic Synthesis in Water** |
| **AO9** | **Focus (II) Bioorthogonal Labelling** |
| **AO10** | **Focus (III): Diversity Oriented Synthesis** |
| **AO11** | **Focus (IV): Polymer Chemistry and Self-Assembly** |
| **CP** | **CAREERS PROGRAMME** |
| **CP1** | **Careers Options** |
| **CP2** | **Applications and Selections** |
| **CP3** | **Thinking of Your Future Career – How Can you Best Prepare for it?** |
| **CP4** | **Post-doctoral Research** |
| **CP5** | **Writing an Effective Fellowship Proposal** |
| **CP6** | **Writing an Effective Grant Application** |
| **CP7** | **Publishing** |
| **CP8** | **Patent Law** |
| **CP9** | **Consultancy** |
| **CP10** | **Entrepreneurship and Innovation** |
| **CP11** | **The Energy Industry** |
| **CP12** | **Oil and Chemical Spill Response** |
| **CP13** | **Science Policy Development and Government** |
| **CP14** | **Careers in the Service Industry** |
| **CP15** | **Teaching in a Range of School Environments** |
| **CP16** | **Teaching in Higher Education (UK and USA)** |