

### Dubchem Modules offered in 2019/20

Module Title	Credits	Semester	Module Co-Ordinator
CA7000 Research Integrity and Impact in an Open Scholarship Era	5	Full year	Niamh Brennan
CHEM40160 Chemistry & Chemical Biology Seminar Programme	0	Full year	John Boland (TCD)
CHEM40240 Spectroscopic Techniques	2.5	1	Susan Quinn (UCD), Yurii Gun'Ko (TCD), Sylvia Draper (TCD)
CHEM40310 Catalytic Asymmetric Synthesis	5	2	Patrick Guiry(UCD), Declan Gilheany (UCD), Stephen Connon (TCD)
CHEM40340 Teaching in Higher Education as a Graduate Assistant	5	Full year	John Boland (TCD)
CHEM40350 Chem Lab to Commercial Application	2.5	2	Declan Gilheany (UCD), Brian Kelly (Celtic Catalysts)
CHEM40360 Synthesis of Pharmaceutical Compounds	5	TBC	Paul Evans (UCD), Mike Casey (UCD)
CHEM40370 Advanced NMR	5	2	Yannick Ortin (UCD), Patrick Guiry (UCD), Andrew Phillips (UCD), John O'Brien (TCD)
CHEM40450 Surface Science and Technology	5	1	Cormac McGuinness (School of Physics, TCD)
CHEM40860 Chemistry Outreach: Development and Practice	5	Full year	Sylvia Draper (TCD), Carl Poree (TCD), John O'Donoghue (TCD), Noelle Scully (TCD)
CHEM41300 Mass Spectrometry for Chem & Biochem Research	2.5	2	Paul Evans (UCD)
CHEM50030 Chemistry Third Year presentation	2.5	2	John Boland (TCD)