

Welcome to the Department of Chemistry

Dr David Watson

Senior Lecturer in Physical
and Materials Chemistry

Undergraduate Admissions Tutor



Why study *Chemistry* at Surrey?

theguardian

Ranked **8th** in the UK

The Guardian University Guide 2020



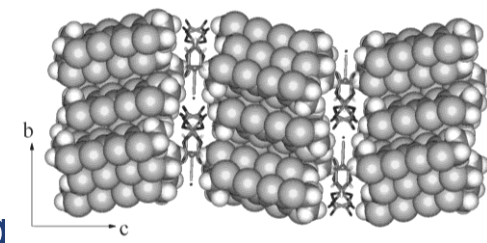
Teaching
Excellence
Framework



Why study *Chemistry* at Surrey?



- The best staff-student ratio in chemistry in the UK
- Access to cutting-edge research instruments, IT facilities and chemistry laboratories
- Placement year in top research and development companies – locally and globally
- An *unrivalled* track record for graduate employability, dating back over a decade
- World leading research staff
- Innovative teaching - multi-pronged approach, featuring lectures, workshops, tutorials, discussion boards, videos, demonstrations, peer-review



You will work in state-of-the-art facilities

Large recent investment in laboratories, computers/software and instruments (e.g. NMR, GC-MS, ICP-MS, UV-Vis, FT-IR, P-XRD, Raman).



Investment in Chemistry



HRH Duke of Kent visiting new Joseph Kenyon Lab
(October 2013)

Newly Refurbished Chromatography
Laboratory (November 2019)



Our friendly academic staff



Dr Cunningham



Prof Mulholland



Prof Read



Prof Varcoe



Dr Howlin



Dr Turner



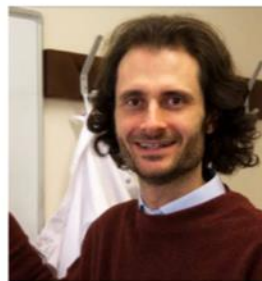
Dr Crean



Dr Watson



Dr Bailey



Dr Whelligan



Dr Sears



Dr Roth



Dr Felipe-Sotelo



Dr Sacchi



Dr Carta



Dr Langat



Dr Ridge



Dr Jobe



Dr Riddlestone



Dr Al-Sid-Cheikh

How can you study Chemistry at Surrey?

	Chemistry*	Medicinal Chemistry*	Chemistry with Forensic Investigation*
Entry Requirements (A-Level)	<p>BSc (Hons): ABB-BBB. Applicants taking the Science Practical Endorsement are required to pass.</p> <p>MChem (Hons): AAB-ABB. Applicants taking the Science Practical Endorsement are required to pass.</p> <p>Required Subjects BSc (Hons): Chemistry and a second science subject.</p> <p>MChem (Hons): Chemistry and a second science subject.</p>	<p>BSc (Hons): ABB-BBB. Applicants taking the Science Practical Endorsement are required to pass.</p> <p>MChem (Hons): AAB-ABB. Applicants taking the Science Practical Endorsement are required to pass.</p> <p>Required Subjects BSc (Hons): Chemistry and a second science subject.</p> <p>MChem (Hons): Chemistry and a second science subject.</p>	<p>BSc (Hons): ABB-BBB. Applicants taking the Science Practical Endorsement are required to pass.</p> <p>MChem (Hons): AAB-ABB. Applicants taking the Science Practical Endorsement are required to pass.</p> <p>Required Subjects BSc (Hons): Chemistry and a second science subject.</p> <p>MChem (Hons): Chemistry and a second science subject</p>

Royal Society of Chemistry accredited degree programmes

*Please consult <https://www.surrey.ac.uk/subjects/chemistry> for full entry requirements

Our MChem Degree Programmes

- Wide range of optional modules in Years 1, 2 & 4
- You must maintain average of 60% in year 1 and 2
- Compulsory Research Placement in Year 3 year
- Flexibility to change between programmes

Year 1: 8 modules

Year 2: 8 modules

**Industrial Research Year:
4 dist. learning modules
plus prof. training**

**Year 4: 4 modules plus
research project (50%)**


Our BSc Degree Programmes

- BSc Chemistry 3 year (no placement)
- BSc Chemistry 4 year (with optional Industrial Placement)
- Wide range of optional modules
- Flexibility to change between programmes

Year 1: 8 modules

Year 2: 8 modules

Industrial Placement Year
Placement activities



More about a *Chemistry* Degree at Surrey

- About 25 hours per week contact time
- 7 hours practical classes per week
- Workshops and subject specific tutorials
- Core Year 1 & 2 modules:
 - Inorganic
 - Organic
 - Physical
 - Analytical
- Plus optional modules
- Assessment is usually by a combination of coursework and examination

} Plus integrated
practical classes

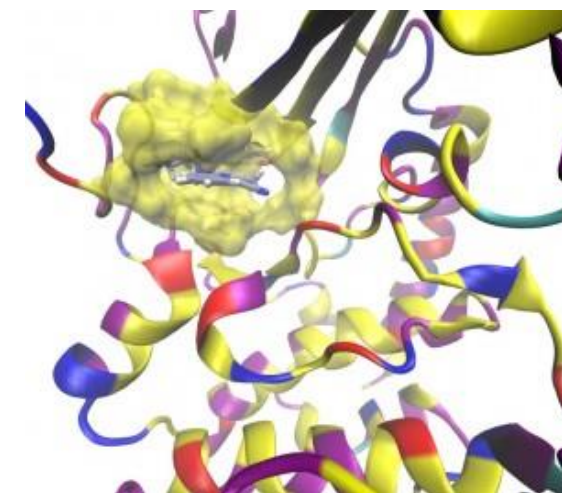


What does a typical week look like?

	Monday 21 October 2019	Tuesday 22 October 2019	Wednesday 23 October 2019	Thursday 24 October 2019	Friday 25 October 2019
9AM		PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 LECT MAIN CAMPUS GENERAL, 32 MS 03 9:00 am to 10:00 am Felipe-Sotelo M (Dr) LECT Lecture	FUNDAMENTALS OF FORENSIC SCIENCE: FROM CRIME SCENE TO COURT CHE1039 LAB MAIN CAMPUS GENERAL, 30 AY 01; MAIN CAMPUS GENERAL, 31 AY 01 9:00 am to 12:00 pm Carta D (Dr) LAB Laboratory		
10AM	MATHEMATICS, COMPUTING AND STATISTICAL SKILLS CHE1040 LECT MAIN CAMPUS GENERAL, 01 DK 02 10:00 am to 11:00 am Watson DJ (Dr) GROUP2A Group 1 LECT Lecture	PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 LAB MAIN CAMPUS GENERAL, 31 AY 01; MAIN CAMPUS GENERAL, 30 AY 01 10:00 am to 2:00 pm Felipe-Sotelo M (Dr); Al Sid Cheikh M (Dr) LAB Laboratory			
11AM	PERIODICITY AND REACTIVITY OF THE ELEMENTS CHE1042 LECT MAIN CAMPUS GENERAL, TB13 11:00 am to 12:00 pm Carta D (Dr) LECT Lecture			MATHEMATICS, COMPUTING AND STATISTICAL SKILLS CHE1040 LECT MAIN CAMPUS GENERAL, 17 DK 02	PERIODICITY AND REACTIVITY OF THE ELEMENTS CHE1042 LECT MAIN CAMPUS GENERAL, TB13 11:00 am to 12:00 pm Carta D (Dr) LECT Lecture
12PM	PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 LECT MAIN CAMPUS GENERAL, 32 MS 03 12:00 pm to 1:00 pm Al Sid Cheikh M (Dr) LECT Lecture			PERIODICITY AND REACTIVITY OF THE ELEMENTS CHE1042 LECT MAIN CAMPUS GENERAL, 32 MS 03 12:00 pm to 1:00 pm Carta D (Dr) LECT Lecture	
1PM					
2PM	FUNDAMENTALS OF FORENSIC SCIENCE: FROM CRIME SCENE TO COURT CHE1039; FUNDAMENTALS OF FORENSIC SCIENCE FOR SOCIAL SCIENTISTS SOC1042 LECT MAIN CAMPUS GENERAL, LTE 2:00 pm to 4:00 pm Sears P (Dr) LECT Lecture	PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 PRAC MAIN CAMPUS GENERAL, 32 BB 03 - Penguin Lab 2:00 pm to 6:00 pm Felipe-Sotelo M (Dr); Al Sid Cheikh M (Dr) PRAC Practical			
3PM					MATHEMATICS, COMPUTING AND STATISTICAL SKILLS CHE1040 LECT MAIN CAMPUS GENERAL, 17 DK 02 3:00 pm to 4:00 pm Ridge K (Dr) GROUP2B Group 2 LECT Lecture
4PM	PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 LECT MAIN CAMPUS GENERAL, TB01 4:00 pm to 5:00 pm Al Sid Cheikh M (Dr) LECT Lecture			PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 TUT MAIN	PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 LECT MAIN CAMPUS GENERAL, 32 MS 03 4:00 pm to 5:00 pm Al Sid Cheikh M (Dr) LECT Lecture
5PM				PRINCIPLES OF ANALYTICAL CHEMISTRY CHE1044 TUT MAIN	

Optional Modules

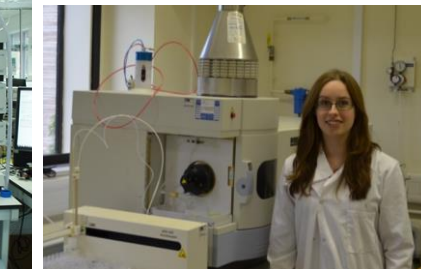
- Forensic Science
- Chemistry of the Environment
- Chemistry and Technology of Modern Materials
- Radiochemistry
- Medicinal Chemistry
- Computer Modelling of Drugs and Biomolecules
- Advanced Polymer Materials



Professional Training at the University of Surrey

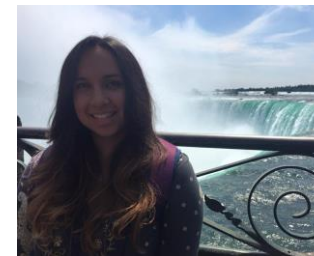
Why do we offer Professional Training?

- A chance to obtain experience in the “real” industrial world
- Specialised training in industry with “real” equipment
- Real problem solving (often on highly confidential projects)
- Opportunity to work in groups (with other professionals such as process engineers, statisticians)
- To help establish ideas about future career prospects



Personal Advantages of Professional Training

- Character building
- Professional skills development in areas such as oral presentations, report writing, and interaction with managers and customers
- Curriculum vitae/graduate employment
- Travel opportunities/living in a foreign country
- Learning a new language



Regular Host Companies

Materials



DeLaRue



Oil Industry



GRACE

Technology



Forensics



Home Office
Centre for Applied
Science



Netherlands Forensic Institute
Ministry of Security and Justice

Environmental



British
Geological Survey



Centre for Environment
Fisheries and Aquaculture
Science



Hill Laboratories
A WORLD LEADER IN ANALYTICAL SERVICES

Regular Host Companies

Pharma



Food



TATA GLOBAL BEVERAGES



Research



Formulation



Reckitt
Benckiser

Regulatory Affairs



ESTÉE LAUDER

What jobs have our chemistry degrees lead to?

- PhD or Masters level research
- Process chemists
- Pharmaceutical researcher
- Forensic scientist
- Experimental chemists
- Computational chemists
- Environmental chemists
- Medicine
- Teacher
- Scientific journal editor
- Scientific sales person
- Finance or banking
- Solicitor
- Marketing manager



So What Happens Now?

- You have been made an offer based on your predicted grades.
- If you get get those grades you are guaranteed a place in October to join us.
- If you do not get your predicted grades we will consider you on a case-by-case basis.
- We have, in past years, accepted students who put us down as their first choice but did not quite make the entry requirements...

What is required of you?

- » Enjoy the rest of your studies, get the best results you can and look forward to returning to Surrey in October!

Is it all work? The Chemistry Student Society



ChemSoc Committee 2019/20



ChemSoc UOS



Chemsoc.uos



Chemsoc.uos



Summary

- We are a friendly department proud to offer strong personal, academic and professional support.
- You will study through well-structured, flexible programmes.
- You will have practical classes in state-of-the-art facilities.
- Our teaching staff consists of internationally recognised academics with broad research interests.
- Large choice of research projects and teaching expertise.
- You will have exciting professional training opportunities.
- You will have fantastic employment prospects.

**Follow us now on Twitter:
@SurreyChemistry**

**YouTube:
Surrey Chemistry**

**email:
d.j.watson@surrey.ac.uk
(admissions tutor)**



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