Welcome to the Department of Chemistry

Dr David Watson

Senior Lecturer in Physical and Materials Chemistry

Undergraduate Admissions Tutor
Why study Chemistry at Surrey?

 Ranked 8th in the UK

The Guardian University Guide 2020

TEF Gold 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
How can you study Chemistry at Surrey?

<table>
<thead>
<tr>
<th>Entry Requirements (A-Level)</th>
<th>Chemistry*</th>
<th>Medicinal Chemistry*</th>
<th>Chemistry with Forensic Investigation*</th>
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</thead>
<tbody>
<tr>
<td>BSc (Hons): ABB-BBB. Applicants taking the Science Practical Endorsement are required to pass.</td>
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Royal Society of Chemistry accredited degree programmes

*Please consult [https://www.surrey.ac.uk/subjects/chemistry](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

<table>
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<th>Year 1: 8 modules</th>
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<td>Year 2: 8 modules</td>
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<tr>
<td>Industrial Research Year: 4 dist. learning modules plus prof. training</td>
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<tr>
<td>Year 4: 4 modules plus research project (50%)</td>
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</tbody>
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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
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<tr>
<th>Day</th>
<th>Date</th>
<th>9am - 10am</th>
<th>10am - 11am</th>
<th>11am - 12pm</th>
<th>12pm - 1pm</th>
<th>1pm - 2pm</th>
<th>2pm - 3pm</th>
<th>3pm - 4pm</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>22 October</td>
<td>General 32 MB 33</td>
<td>Court CHE1030 Lab</td>
<td>CHE1040 Lab</td>
<td>General 32 MB 33</td>
<td>CHE1040 Lab</td>
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<td>23 October</td>
<td>8:00 am - 10:00 am</td>
<td>10:00 am - 11:30 am</td>
<td>11:30 am - 1:00 pm</td>
<td>1:00 pm - 2:30 pm</td>
<td>2:30 pm - 4:00 pm</td>
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<td>Wed</td>
<td>24 October</td>
<td>Math Camp General, 32 MB 33</td>
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<td>25 October</td>
<td>8:00 am - 10:00 am</td>
<td>10:00 am - 11:30 am</td>
<td>11:30 am - 1:00 pm</td>
<td>1:00 pm - 2:30 pm</td>
<td>2:30 pm - 4:00 pm</td>
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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

- JM
- 3M
- DeLaRue
- intrinsiq materials

Oil Industry

- bp
- GRACE

Technology

- idbs
- PerkinElmer

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
Regular Host Companies

**Pharma**
- Crescent
- GlaxoSmithKline
- LGC
- Pfizer
- P&G
- Roche
- Novartis

**Food**
- Mondelez International
- Tata Global Beverages
- Science & Technology Facilities Council
- dstl

**Formulation**
- Syngenta
- Reckitt Benckiser
- MERCK
- Estee Lauder

**Research**
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 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)