“Chemistry is such an important degree. There’s so many areas of life that it affects and so many career opportunities. In the future I want to carry on with my research, make a difference and improve people’s quality of life.”

JESSICA PIMLOTT
BSc (Hons) Chemistry

To see an Augmented Reality video of Jessica, please download the Wikitude app from the App Store or Google Play.

1. Download and open the wikitude app
2. Simply type ManMetScience into the search box
3. Scan this page and be amazed!
WHY STUDY CHEMISTRY?

Chemistry is often called the 'central science', because its applications form the basis for so many different scientific disciplines. The same applies to your future. Study chemistry with us now and you'll open up a vast range of pathways and possibilities. Whether you're looking ahead to a career in the pharmaceutical, materials, food and drink, utility, healthcare, aerospace, automotive or telecommunications industries – to name just a few – you can make your start with us.

As a physical science, chemistry considers the origins, behaviour and properties of materials from the (sub) atomic level to the macro scale, and how they affect our daily lives, from health and wellbeing to the material world. Ultimately, chemistry tells us how the material world works – so studying it will give you the power to understand and engage with its processes to improve the world around us.

We offer a selection of different programmes, offering the chance to focus on areas like medicinal, biological or pharmaceutical chemistry, or to concentrate on the core elements of the discipline. All our BSc programmes offer the option to study abroad, in Europe or further afield. And, all are designed and led by research-active staff, in fully-equipped specialist labs – because we believe that learning skills first-hand is the best way to help you prepare for a range of rewarding careers.
WHICH COURSE TO STUDY AT MANCHESTER MET

Our courses will give you the specific skills to start your career with confidence, delivered by a team of experts.

CHEMISTRY MChem (Hons)

This advanced programme offers a professional-grade understanding of chemistry, helping you pave the way for a role as a professional chemist or a higher degree.

The MChem is an integrated four-year undergraduate Masters course that covers study areas like reactions and mechanisms, materials chemistry, forensic chemistry, drug discovery, computational chemistry and spectroscopy, chemical synthesis, physiochemical processes and environmental chemistry.

The programme is a high-standard platform for a range of careers. It includes professional studies, where you spend a year focusing on a major independent project that you design, carry out and present, alongside your other areas of study.

Throughout the course, you’ll develop the kind of practical skills vital for lab work, along with a balanced understanding of inorganic, organic, physical and analytical chemistry. You’ll also have the flexibility to pursue the specialisms you’re most passionate about – not only choosing the direction for your final project, but also selecting the units that will help you shape the knowledge, experience and skills required for the career you aspire to.

FEATURES AND BENEFITS
- We’ve invested half a million pounds in state-of-the-art laboratories and professional-grade equipment, so you can gain first-hand experience of a wide variety of manual and instrumental lab skills and techniques.
- Apply for the BSc (Hons) course now and you can choose the MChem later, at the end of Year 2. As long as you’re working to a high enough standard you can then switch over to the MChem route.

Units typically include (this list is indicative and may change):

YEAR 1
- Chemical Equilibrium and Mathematical Methods
- Chemistry in Society 1
- Inorganic and Organic Chemistry
- Introduction to Chemical Analysis
- Introduction to Thermodynamics and Kinetics
- Laboratory Techniques 1

YEAR 2
- Chemistry of the Carbonyl Group
- Instrumental Analysis
- Solid State, d-block and f-block Chemistry
- Structure and Spectroscopy
- Thermodynamics and Kinetics
- Laboratory Techniques 2

YEAR 3
Core units:
- Advanced Inorganic Chemistry
- Advanced Instrumental Analysis
- Advanced Laboratory Techniques
- Advanced Organic Chemistry
- Advanced Physical Chemistry
- Project and Personal Development

Plus an option unit from:
- Advanced Topics in Green Chemistry
- Chemistry in Society 3

FINAL YEAR
- Advanced Project and Personal Development
- Further Topics in Analysis, Synthesis and Catalytic Chemistry
- Research Frontiers in Chemistry and Materials

THE LATEST INFORMATION ABOUT OUR COURSES, INCLUDING THE MOST UP-TO-DATE LIST OF UNITS, CAN BE FOUND ONLINE AT MMU.AC.UK/COURSES
“TEACHING IS CONSOLIDATED WITH LAB WORK WHICH I’VE REALLY ENJOYED AS IT GAVE ME THE OPPORTUNITY TO PUT WHAT I’VE LEARNT INTO PRACTICE. WE’RE ALSO TRAINED TO USE HIGH TECH EQUIPMENT FROM THE FIRST YEAR SO YOU GET HANDS-ON EXPERIENCE.”

ISOBEL ROLAND
MChem (Hons) Chemistry
PHARMACEUTICAL CHEMISTRY
MChem (Hons)

Forge a future in a discipline which touches people every day – discovering treatments for disease, improving lives and shaping futures.

The MChem in Pharmaceutical Chemistry is an integrated four-year undergraduate Masters course providing an excellent grounding in the skills and knowledge vital to a future as a pharmaceutical chemist working in drug discovery.

Throughout the programme, you’ll study a wide range of subjects, both to gain a good understanding in the wider subject and to develop the specialist skills central to pharmaceutical chemistry. So, while you’ll study general chemistry, research methods and professional laboratory techniques, your programme will also focus on more specialist areas like drug testing, drug efficacy, computer-based drug design and the quality control of pharmaceuticals.

The programme includes professional studies, where you spend a year focusing on a major independent project in pharmaceutical chemistry that you design, carry out and present, alongside your other areas of study.

FEATURES AND BENEFITS
• An enhanced and advanced route, offering the chance to undertake research for a higher degree or to pursue a career in industry as a professional chemist.
• Our laboratories are state-of-the-art and will give you first-hand experience of a wide variety of manual and instrumental lab skills and techniques.
• Apply for the BSc (Hons) course now and you can choose the MChem later, at the end of Year 2. As long as you’re working to a high enough standard you can then switch over to the MChem route.

Units typically include (this list is indicative and may change):

YEAR 1
• Chemical Equilibrium and Mathematical Methods
• Inorganic and Organic Chemistry
• Introduction to Chemical Analysis
• Introduction to Drug Discovery
• Introduction to Thermodynamics and Kinetics
• Laboratory Techniques 1

YEAR 2
• Chemistry of the Carbonyl Group
• Formulation, Fate and Biometabolism
• Laboratory Techniques 2
• Pharmaceutical Analysis and Quality Control
• Solid State, d-block and f-block Chemistry
• Structure and Spectroscopy
• Thermodynamics and Kinetics

YEAR 3
• Advanced Inorganic Chemistry
• Advanced Laboratory Techniques
• Advanced Organic Chemistry
• Advanced Pharmaceutical Chemistry
• Advanced Physical Chemistry
• Drug Target Interactions
• Project and Personal Development

FINAL YEAR
• Advanced Project and Personal Development
• Frontiers in Pharmaceutical Chemistry
• Research Frontiers in Chemistry and Materials

THE LATEST INFORMATION ABOUT OUR COURSES, INCLUDING THE MOST UP-TO-DATE LIST OF UNITS, CAN BE FOUND ONLINE AT MMU.AC.UK/COURSES
CHEMISTRY
BSc (Hons)

With skills from the lab and understanding from the classroom, this programme provides the perfect mix of practice and theory you’ll need for a wide range of scientific pursuits.

With our BSc (Hons) Chemistry programme, we blend laboratory study with classroom learning to ensure you graduate with a balanced understanding of the subject, from inorganic and organic chemistry, to physical and analytical chemistry.

We’ve worked to shape our curriculum around industry needs and developments, so we’ll equip you with the skills and strengths that employers want. And, while the units you’ll study provide a well-rounded understanding of the subject as a whole, you’ll also have the flexibility to focus on those areas that interest you most — developing the knowledge, experience and skills you’ll need to fulfil your professional or academic ambitions. As such, we cover a wide range of specialist areas, including physiochemical processes, materials chemistry, forensic chemistry, biological and medicinal chemistry, drug discovery, catalysis, computational chemical modelling and spectroscopy, and synthetic chemistry.

FEATURES AND BENEFITS
• Choose a four-year route with your third year spent either on an industry placement or abroad studying with one of our partner institutions in Europe, North America or Australia.
• Our laboratories are state-of-the-art and will give you first-hand experience of a wide variety of manual and instrumental lab skills and techniques.

Units typically include (this list is indicative and may change):

YEAR 1
• Chemical Equilibrium and Mathematical Methods
• Chemistry in Society 1
• Inorganic and Organic Chemistry
• Introduction to Chemical Analysis
• Introduction to Thermodynamics and Kinetics
• Laboratory Techniques 1

YEAR 2
Core units:
• Chemistry of the Carbonyl Group
• Instrumental Analysis
• Laboratory Techniques 2
• Solid State, d-block and f-block Chemistry
• Structure and Spectroscopy
• Thermodynamics and Kinetics

Option Units:
• Chemistry in Society 2
• Green Chemistry

YEAR 3
You can either choose to spend the year on a placement with an employer or studying abroad, or go onto your final year.

FINAL YEAR
Core units:
• Advanced Inorganic Chemistry
• Advanced Instrumental Analysis
• Advanced Laboratory Techniques
• Advanced Organic Chemistry
• Advanced Physical Chemistry
• Project and Personal Development

Option Units:
• Advanced Topics in Green Chemistry
• Chemistry in Society 3
PHARMACEUTICAL CHEMISTRY
BSc (Hons)

With a mix of practical skills, analytical abilities and research techniques, this course provides the complete toolkit for a future in drug discovery and testing.

This is a degree that not only offers a firm grounding in general chemistry, research methods and laboratory techniques, but also provides the specialist skills and understanding you’ll need to pursue a future in pharmaceutical chemistry. We’ve developed the course with the pharmaceutical industry in mind – ensuring that our curriculum covers all the skills and strengths that employers demand, and that our placements offer the practical experience on which you can build a career.

You’ll focus on areas like drug testing, drug efficacy, computer-based drug design and the quality control of pharmaceuticals – equipping you for a role in the drug discovery industry.

FEATURES AND BENEFITS
• Develop specialist skills with in-depth training in pharmaceutical and analytical chemistry.
• Choose a four-year study pattern, where you spend your third year either on an industry placement or abroad studying with one of our partner institutions in Europe, North America or Australia.
• We’ve invested over a million pounds in our synthetic chemistry and materials laboratories, including the installation of an X-ray diffractometer which analyses the crystal structure of materials at the atomic level.

• Our laboratories are state-of-the-art and will give you first-hand experience of a wide variety of manual and instrumental lab skills and techniques.

Units typically include (this list is indicative and may change):

YEAR 1
• Chemical Equilibrium and Mathematical Methods
• Inorganic and Organic Chemistry
• Introduction to Chemical Analysis
• Introduction to Drug Discovery
• Introduction to Thermodynamics and Kinetics
• Laboratory Techniques 1

YEAR 2
• Chemistry of the Carbonyl Group
• Formulation, Fate and Biometabolism
• Laboratory Techniques 2
• Pharmaceutical Analysis and Quality Control
• Solid State, d-block and f-block Chemistry
• Structure and Spectroscopy
• Thermodynamics and Kinetics

YEAR 3
You can either choose to spend the year on a placement with an employer or studying abroad, or go onto your final year.

FINAL YEAR
• Advanced Inorganic Chemistry
• Advanced Laboratory Techniques
• Advanced Organic Chemistry
• Advanced Pharmaceutical Chemistry
• Advanced Physical Chemistry
• Drug Target Interactions
• Project and Personal Development

THE LATEST INFORMATION ABOUT OUR COURSES, INCLUDING THE MOST UP-TO-DATE LIST OF UNITS, CAN BE FOUND ONLINE AT MMU.AC.UK/COURSES
"I’VE HAD LOTS OF SUPPORT IN TERMS OF MY CAREER PATH. I WOULD LIKE TO TEACH CHEMISTRY AND I RECENTLY JOINED THE ROYAL SOCIETY OF CHEMISTRY THROUGH THE UNIVERSITY, WHICH IS GREAT FOR MY CV.”

IMOGEN CLEGG
BSc (Hons) Chemistry
MEDICINAL AND BIOLOGICAL CHEMISTRY BSc (Hons)

Chart the path from molecular structure to medicinal impact, by studying the chemical and biological principles which are integral to a future in the pharmaceutical industry.

Medicinal and biological chemistry are central pillars of drug design, covering the skills, techniques and understanding crucial to a career in the development, testing and production of new treatments. So, while this course is rooted in general chemistry – offering a good grounding in broad principles, research methods and laboratory techniques – it’s a specialist course, designed in conjunction with industry to equip you with the knowledge and abilities employers want. That means you’ll explore everything from the sources of drug molecules, mechanisms of drug action, computational drug modelling, spectroscopy and the preparation of drug molecules, to biochemistry, physiochemical processes, medicinal chemistry, bioinorganic and bioorganic chemistry. You’ll have scope to focus on areas like biomedical or health science units, and you’ll finish off your studies with a research project of your own design.

FEATURES AND BENEFITS
• Opt for a four-year route, with the third year of your programme spent either on an industry placement or abroad studying with one of our partner institutions in Europe, North America or Australia.
• Learn in a research-active environment, with state-of-the-art laboratory facilities and supporting instrumentation.
• We recently invested over a million pounds in upgrading our synthetic chemistry and materials laboratories, including the installation of an X-ray diffractometer, which analyses the crystal structure of materials at the atomic level.
• Our laboratories are state-of-the-art and will give you first-hand experience of a wide variety of manual and instrumental lab skills and techniques.

Units typically include (this list is indicative and may change):

YEAR 1
• Biomolecules and Cells
• Chemical Equilibrium and Mathematical Methods
• Inorganic and Organic Chemistry
• Introduction to Drug Discovery
• Introduction to Thermodynamics and Kinetics
• Laboratory Techniques 1

YEAR 2
• Applied Molecular Biology
• Biochemistry
• Chemistry of the Carbonyl Group
• Formulation, Fate and Biometabolism
• Laboratory Techniques 2
• Solid State, d-block and f-block Chemistry
• Structure and Spectroscopy

YEAR 3
You can either choose to spend the year on a placement with an employer or studying abroad, or go onto your final year.

FINAL YEAR
Core units:
• Advanced Inorganic Chemistry
• Advanced Laboratory Techniques
• Advanced Organic Chemistry
• Advanced Pharmaceutical Chemistry
• Project and Personal Development

Option unit:
• Drug Target Interactions
• Forensic Genetics
• Drug Target Interactions

THE LATEST INFORMATION ABOUT OUR COURSES, INCLUDING THE MOST UP-TO-DATE LIST OF UNITS, CAN BE FOUND ONLINE AT MMU.AC.UK/COURSES
Few courses could have a more practical impact. Designed in consultation with the chemical industry, this has been created just for those already working in the sector. With a part-time study pattern, it allows you to learn new professional skills without having to step away from the workplace. By balancing your studies and your job, you’ll have the chance to apply your advanced understanding in your professional life – helping you make a step up in your career.

FEATURES AND BENEFITS
- Learn while you work, with a combination of distance e-learning and annual residential stays at the University.
- With course content designed to apply to the real world of the workplace, this provides a potential gateway to first line management and professional status.
- You can study the BSc (Hons) Chemical Science as part of the Laboratory Scientist Degree Apprenticeship. Find out more about the apprenticeship on pages 12-13, or visit www.mmu.ac.uk/apprenticeships/students/laboratory-scientist

Units typically include (this list is indicative and may change):

YEAR 1
- Fundamental Physical Chemistry
- Fundamental Inorganic Chemistry
- Fundamental Organic Chemistry
- Introduction to Chemical Analysis
- Introduction to Workplace Regulation
- Laboratory Scientist Skills 1

YEAR 2
- Applied Chemistry for Industry
- Communication & Research Skills
- Intermediate Inorganic Chemistry
- Intermediate Organic Chemistry
- Intermediate Physical Chemistry
- Laboratory Scientist Skills 2

YEAR 3
- Advanced Inorganic Chemistry
- Advanced Organic Chemistry
- Business Improvement
- Spectroscopy and Instrumental Analysis
- Workplace Project

Option unit:
- Green Chemistry and Sustainability
- Pharmaceutical Chemistry
- Polymer Chemistry

YEAR 4
- Advanced Instrumental Analysis
- Advanced Physical Chemistry
- Further Topics in Chemistry
- Project and Personal Development

Two topics from the following typical options must be selected for the Further Topics in Chemistry unit:
- Advanced Green Chemistry
- Advanced Pharmaceutical Chemistry
- Chemistry in Society
- Drug Target Interactions

Designed for those working in the chemical industry, this is a four-year part-time course that provides a pathway for career progress and professional status.

THE LATEST INFORMATION ABOUT OUR COURSES, INCLUDING THE MOST UP-TO-DATE LIST OF UNITS, CAN BE FOUND ONLINE AT MMU.AC.UK/COURSES
LABORATORY SCIENTIST DEGREE APPRENTICESHIP

You don’t have to take a traditional route to find a great career in the chemical industry. With this programme, you can gain laboratory skills in a workplace environment.

The Laboratory Scientist degree apprenticeship is an industry-driven, government supported route where students can gain a degree while working for an employer at the same time. You work full-time for your employer while studying part-time towards a BSc (Hons) Chemical Science degree at Manchester Metropolitan University’s Faculty of Science and Engineering. For more information about the degree programme, including units of study year by year, see page 11.

Combining study with real work in the chemical industry offers a great way to start or boost progress in your career. As well as studying part-time with us, you’ll have tutor-supported distance learning and annual residential schools in our state-of-the-art laboratories – ensuring you gain a well-grounded academic understanding of the subject. But it’s also a programme with a strong professional and practical focus, designed to help you move into roles like:

- Scientific team leader
- Technologist
- Laboratory analyst
- Laboratory manager
- Senior scientist
- Process operations manager

Above all, it’s an opportunity to get a foot in the door of a business in the chemical sector, learning from industry professionals and developing key scientific and laboratory skills in a real workplace.

FREQUENTLY ASKED QUESTIONS

What qualification do I receive?
Upon successful completion of the Degree Apprenticeship, you will be awarded a BSc Chemical Science.

How much will it cost?
You will not have to pay any tuition fees if you are enrolling on the apprenticeship programme. Your employer and the government pay any university tuition fees.

How long does the programme take?
The BSc (Hons) Chemical Science component of the degree apprenticeship will usually take four years. On completion of the BSc there is an additional end point assessment which must be undertaken to pass the apprenticeship within 6 months.

What are the entry requirements?
Candidates should have a minimum of 104-112 points at A2 (Grades BCC), with one being Chemistry. Equivalent qualifications such as BTEC Level 3 Extended Diploma, DMM, in a scientific discipline is also acceptable. We will individually evaluate candidates who do not meet these requirements, but have workplace experience.

How do I apply?
You must first secure a position with an employer offering the apprenticeship programme before enrolling with Manchester Met. Vacancies for the apprenticeship programme are advertised on www.mmu.ac.uk/apprenticeships
“WORKING IN INDUSTRY ALONGSIDE THE ACADEMIC WORK MEANT I LEARNED A LOT OF SKILLS I DIDN’T EXPECT TO LEARN. IMPORTANT THINGS SUCH AS GIVING FEEDBACK, WHEN TO SPEAK UP AND HOW TO COMMUNICATE WITH DIFFERENT PEOPLE – IT’S THE SORT OF GENERAL WORKPLACE ETIQUETTE THAT YOU MIGHT NOT LEARN AT SCHOOL. I’VE ALSO DEVELOPED A LOT OF GREAT WORKING RELATIONSHIPS, BUILDING MY PROFESSIONAL NETWORK, KNOWING WHO I WORK WITH WELL AND CAN ASK SUPPORT FROM.”

MARIANNE PAYNE
Apprenticeship, BMW
The Royal Society of Chemistry accredits the following degree programmes:

- MChem (Hons) Chemistry
- MChem (Hons) Pharmaceutical Chemistry
- BSc (Hons) Chemistry
- BSc (Hons) Pharmaceutical Chemistry
- BSc (Hons) Medicinal and Biological Chemistry
FOUNDATION YEAR

If you have the potential to study at degree level, but you don’t meet the entry requirements, a foundation year can bridge the gap – laying the groundwork for entry in to Year 1.

WHAT YOU STUDY
The units you’ll study are designed to build your confidence and bring you up to speed for the rest of your chosen degree. So, as well as the Academic Skills for Higher Education unit, which helps develop your study skills for learning at the degree-level, you’ll also do three units based around your subject.

The following courses are available with a Foundation Year:
- BSc (Hons) Chemistry
  UCAS code: F108
- BSc (Hons) Pharmaceutical Chemistry
  UCAS code: F159
- BSc (Hons) Medicinal and Biological Chemistry
  UCAS code: C728

WHAT YOU NEED TO APPLY
To apply for a degree with a Foundation Year, you’ll typically need 72 – 80 UCAS points – earned from full A-levels (not AS) or equivalent qualifications, like a BTEC – plus at least a Grade 3 or D in GCSE English and Maths. But every course is different – some may have higher entry requirements and we may be able to consider equivalent qualifications for others, so it’s vital that you check our online prospectus before you apply. If you have other qualifications that aren’t on the UCAS tariff, we may still consider them – just check at mmu.ac.uk/course-enquiry

If English is not your first language, you will need an English language qualification, like IELTS 5.5. Then, you can take our Foundation Year International Route, which includes a unit that offers English language, study skills and tutor support. You can find out more about support and fees for international students at mmu.ac.uk/international

FOUNDATION YEAR FINANCES
Foundation Year students are treated exactly the same as students on BA (Hons) and BSc (Hons) degrees – so you can apply for a tuition fee loan (and a maintenance loan if you’re from the UK) for the full duration of your course, including your Foundation Year. You can find out more about student finance, including details on scholarships and bursaries, at mmu.ac.uk/money-matters – and you can find funding information at gov.uk/student-finance

APPLYING FOR A FOUNDATION YEAR
If you choose the foundation year route, you apply for a four-year course (or five with a placement year). Then once you have passed the Foundation Year you will progress directly into Year 1 of your degree course.

Like all our full-time undergraduate degrees, you’ll need to apply through UCAS. Degrees with a Foundation Year have their own UCAS codes, which you can find on the UCAS website, or by searching at mmu.ac.uk/foundation
From award-winning architecture and a five-floor 24-hour library, to seminar rooms, study zones and computer suites, on our campus we’ve created an environment where academic excellence thrives.

The technology, the facilities, the buildings – it’s all designed with students like you in mind. We’ve invested in a campus fit for your ambitions. The result is a wide array of fantastic places for your studies, creating the ideal setting for you to realise your potential.

EMPHASIS ON LAB WORK
We believe that the best way to learn about chemistry is to experience it first-hand in the laboratory. So our courses include as much practical experience as possible, getting you into specialist chemistry laboratories to use the latest equipment and techniques. As such, you’ll learn and apply the fundamentals of chemical science through practical lab work, developing a variety of manual and instrumental laboratory skills.

STATE-OF-THE-ART LABORATORIES
We’ve invested significantly, bringing already excellent laboratories up to an even higher standard. When it comes to analysing and testing, our equipment is state-of-the-art – including liquid chromatography-mass spectroscopy and nuclear magnetic resonance spectroscopy. We’ve also put more than half a million pounds into our synthetic chemistry and materials laboratories, installing a new X-ray diffractometer which analyses the crystal structure of materials at the atomic level, and an automated flow micro-chemical reaction system which can improve the yield and efficiency of specialised synthetic chemistry experiments.
“ANALYTICAL, PHARMACEUTICAL AND QUANTUM CHEMISTRY HAVE BEEN VERY INTERESTING FOR ME TO LEARN. THE CONTENT OF THE COURSE BUILT UP MY KNOWLEDGE FROM A-LEVEL AND GAVE IT MORE DEPTH. THE LAB CLASSES GAVE ME A PRACTICAL APPROACH ON HOW THE THEORY IS APPLIED.”

AHMED ABDUL RAHIM
BSc (Hons) Chemistry
WHAT TO EXPECT DURING YOUR STUDIES

Making the most of your university is all about striking the right balance. With plenty of support on offer, we’ll help you find it.

Life at university is a mixture of classes, lectures, tutor meetings, group work and independent study – not to mention your social life or hobbies. There’s lots to juggle. But we’re ready to help you make the most of your time with us.

MANAGING YOUR TIME

No matter what you’re studying, time management is one of the most important skills you’ll need (it will come in handy after you graduate too). While lectures, classes and tutorials are set in your timetable, the rest is up to you. You’ll need to make time for studying, going to the library and preparing for assessments – with deadlines to hit and schedules to keep. And, when it comes to group work, it’s up to everyone to get organised and plan time to work together.

MODES OF STUDY

Teaching techniques vary from formal lectures and practical sessions, to presentations and group activity. We also have our online Moodle system, which offers a range of tools and information – including access to your own personalised timetable so you know where you’re supposed to be and when.

ASSESSMENT AND FEEDBACK

We use a range of different assessment techniques, with examinations and continuous evaluation including laboratory reports, coursework assignments, in-class tests, oral presentations, reports on case studies, group work and online tests.
“WITH US, YOU’LL BENEFIT FROM SPECIALIST TRAINING AND INVOLVEMENT IN RESEARCH PROGRAMMES TO BROADEN YOUR EXPERIENCE AND PREPARE YOU FOR A FUTURE IN SCIENCE. MY RESEARCH INTERESTS ARE IN CHEMICAL AND PHARMACEUTICAL PROFILING AND DEVELOPING METHODS FOR DETECTING ILLEGAL PSYCHOACTIVE DRUGS SUCH AS ‘SPICE’ (SYNTHETIC CANNABINOIDs) AND DESIGNER OPIATES (FENTANYLS). I’M CURRENTLY WORKING WITH GREATER MANCHESTER POLICE AND MANCHESTER CITY COUNCIL ON HARM REDUCTION INITIATIVES TO HELP VULNERABLE COMMUNITIES.”

DR OLIVER SUTCLIFFE
Senior Lecturer
Psychopharmaceutical Chemistry
“THE TEACHING VARIED FROM LARGE LECTURES TO SMALL SEMINARS WITH WEEKLY PRACTICAL SESSIONS IN THE LAB. THE FACILITIES ARE REGULARLY UPGRADED AND THE TEACHING LABS CONTAIN INDUSTRY-STANDARD EQUIPMENT.”

THOMAS ROBERTSON
MChem (Hons) Chemistry
Professionally-focused courses, designed with (and for) employers. Staff with real industry experience. Dedicated support to help you build vital experience. It all adds up to get you working.

KICK-START YOUR FUTURE CAREER
Equipped for the world of work

PLACEMENTS
The four-year sandwich route available on our BSc courses provides the opportunity to spend your third year getting a taste of professional life. Going on a placement offers the opportunity to develop professional skills and confidence in the workplace – not only giving you the tools to excel in your final year, but also giving your career prospects a boost after you graduate.

STUDY ABROAD
Many of our courses offer the opportunity to spend up to a year overseas, studying with one of our partner institutions across Europe, or beyond. Go abroad in the third year of your degree, and you’ll not only learn about other cultures, improve your language skills and discover more about yourself – you’ll also boost your career prospects. Having first-hand knowledge of another country’s cultures and traditions can take you far in a range of careers. And, by going abroad you’ll also demonstrate the kind of independent spirit and adaptability that many employers want.

WORKING ABROAD
Gaining work experience with an international flavour offers a double benefit. While you’ll learn valuable professional skills in a real-world workplace, you’ll also experience different cultures, ways of working and new perspectives. Whether it’s a summer exchange, holiday internship or year-long international placement, global experience can make a world of difference to your career prospects.

A CITY OF OPPORTUNITIES
Manchester and the North West are one of the largest centres for science in the UK. For today, that puts us in the perfect place to offer an education rooted in the real world – taking advantage of the region’s diverse and thriving scientific and environment sectors. For tomorrow, that puts you in an excellent position to pursue a range of rewarding careers.
Among our staff, you’ll find lecturers, librarians, technicians and student support officers – and more. The one thing they all share is a dedication to providing the best possible learning experience.

**TEACHING EXPERTISE**

With two senior learning and teaching fellows among our team, our teaching expertise is second to none. And we aim to keep it that way, by making sure all our new staff complete a Postgraduate Certificate in Academic Practice.

All our courses are designed, led and taught by some of the UK’s leading academic voices. This means you’ll learn directly from research-active academic staff with genuine passion and unrivalled understanding. And, because so many of our staff across the School bring their own professional experience and strong industry links, you can be sure that your course is relevant and up-to-date, equipping you for your career.

**DEDICATED SUPPORT**

We believe that a first-class learning environment starts with an open, welcoming atmosphere. So we encourage interaction between everyone in the School, whether they’re students, support staff, researchers or lecturers. We make sure that your teaching sessions are run by an academic staff member, because we want you to have direct contact with real experts on the topic. And we encourage all our students to contact us outside formal sessions if you need any support or guidance throughout your studies and beyond.
I chose theoretical chemistry as it was the most challenging subject I could think of. Now, I get to research a wide range of applications, from olfactory proteins and biosensors, through to designing drugs and functional materials. Often students can worry about learning new and challenging topics since they fear failure – but it’s by struggling and persevering through difficult concepts that we learn.”

DR LINDSEY MUNRO
Head of Division
Chemistry and Environmental Sciences
INTERNATIONAL STUDENTS

We’re proud to be part of a diverse community, with students from over 120 countries around the world choosing to study at Manchester Met. Come to Manchester and you’ll be part of our world.

MEET US
Our international team travels around the world to tell students like you what it’s like to live and study here. We also offer virtual events you can attend online. Find out more at mmu.ac.uk/international

SUPPORT ON CAMPUS
From the day you arrive to the day you graduate, we’re here to help. We run events to welcome you to Manchester, and we offer learning support, counselling services and career advice. If you need help with your visa, our Immigration and Welfare team can give you advice.

ENGLISH LANGUAGE SKILLS
If English isn’t your first language, you’ll need to reach IELTS 6.0 (check mmu.ac.uk/courses to see what your course requires). If you need help once you arrive, we run workshops and courses to develop both your skills and your confidence – find out more at mmu.ac.uk/englishlanguagecourses

APPLYING TO JOIN US
To study with us, you’ll need to apply through UCAS, at ucas.com

You can see how your qualifications fit with our courses at mmu.ac.uk/international/your-country

Working with a local adviser can be a great way to get information about the University and help with your application and visa. To find out if we have an adviser in your country, please visit our website.

You can find everything you need to know – from course requirements to financial details to information about life in Manchester – at mmu.ac.uk/international
“Studying at Manchester Metropolitan University has given me the opportunity to experience student life in a metropolitan city and immerse myself in a completely different culture.”

WAN LING LEE  
BA (Hons) Business and Spanish, Malaysia

YOUR ARRIVAL  
We want to make sure your arrival at Manchester Met goes as smoothly as possible so we run a free airport pick-up scheme, which is available all year round. All new international students arriving at Manchester Airport when beginning their studies are eligible, but you may need to book depending on when you arrive.

Every September we run welcome events for international students, designed to help you meet other students and settle in at the University.

HELP WHEN YOU NEED IT  
The University’s student services team offers international students career advice, counselling and learning support. The Immigration and Welfare team provide confidential advice and guidance as well as regular workshops to help with renewing your visa.

ENGLISH LANGUAGE SUPPORT  
We provide free English language support workshops. These will help improve your language skills, your confidence in classes and seminars, and help you achieve better results in projects and exams.

INTERNATIONAL STUDENT TUITION FEES AND SCHOLARSHIPS  
Our international fees are competitive and the cost of living in the region is much lower than London and many other world cities. Tuition fees remain the same for each year of your degree and the University offers competitive scholarships for international students.

For up-to-date information, please visit our website mmu.ac.uk/international
“My favourite thing about Manchester Metropolitan University is the fact that we’ve got these brilliant laboratories and the students get hands-on. In my role as Technical Team Leader, I look after two main laboratories and make sure that the students have everything they need to do their experiments.”

BILL ELLISON
Technical Team Leader
Faculty of Science and Engineering
## COURSE DIRECTORY

<table>
<thead>
<tr>
<th>Degree title</th>
<th>Years of study</th>
<th>UCAS code</th>
<th>Typical entry requirements</th>
<th>Additional entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MChem (Hons) Chemistry</td>
<td>4 full-time</td>
<td>F103</td>
<td>112-120 BBC-BBB DMM</td>
<td>A2 grade C in chemistry, or equivalent. GCSE grade C or 4 in English language, science and mathematics.</td>
</tr>
<tr>
<td>MChem (Hons) Pharmaceutical Chemistry</td>
<td>4 full-time</td>
<td>F154</td>
<td>112-120 BCC-BBC DMM</td>
<td>As above</td>
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<tr>
<td>BSc (Hons) Chemistry</td>
<td>3 full-time</td>
<td>F100</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
</tr>
<tr>
<td>BSc (Hons) Chemistry with placement year</td>
<td>4 full-time</td>
<td>F104</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
</tr>
<tr>
<td>BSc (Hons) Pharmaceutical Chemistry</td>
<td>3 full-time</td>
<td>F151</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
</tr>
<tr>
<td>BSc (Hons) Pharmaceutical Chemistry with placement year</td>
<td>4 full-time</td>
<td>F151</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
</tr>
<tr>
<td>BSc (Hons) Medicinal and Biological Chemistry</td>
<td>3 full-time</td>
<td>C725</td>
<td>104-112 BCC-BBC DMM</td>
<td>A2 grade C in chemistry and D in biology, or equivalent. GCSE grade C in English, mathematics and science.</td>
</tr>
<tr>
<td>BSc (Hons) Medicinal and Biological Chemistry with placement year</td>
<td>4 full-time</td>
<td>C725</td>
<td>104-112 BCC-BBC DMM</td>
<td>As above</td>
</tr>
<tr>
<td>BSc (Hons) Chemical Science</td>
<td>4 part-time</td>
<td>N/A</td>
<td>–</td>
<td>Applications will be considered on an individual basis*.</td>
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</table>

*Selected degrees are available with a Foundation Year. For further information visit mmu.ac.uk/foundationyear
*For the full list of course combinations visit mmu.ac.uk/combinedhonours
*Check UCAS.com for the most up-to-date 2019 entry requirements.

**IMPORTANT NOTICE**

This brochure was developed in early 2018 to help you choose the right course for the 2019 academic year and may be used as a guide for other years of entry. The information therefore reflects the courses as they are at this time. Please be aware that placements and overseas study cannot be guaranteed on our courses. This brochure is intended to provide an overview of our courses and the Faculty of Science and Engineering.

The online prospectus available at mmu.ac.uk/courses provides key up-to-date information about our courses to help you make an informed decision about which one to apply to, so please check online.
THE COUNTDOWN STARTS RIGHT NOW

Dates to note and deadlines to remember

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<thead>
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<th>JUNE</th>
<th>JUNE Pay us a visit – Open Day, 20 Jun. Book at mmu.ac.uk/openday</th>
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<td>SEPTEMBER</td>
<td>SEPTEMBER Applications open – don’t wait. Go to ucas.com</td>
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