

Essential, Recommended and Further Reading

BSc and MSci Chemistry Students

You will need to use text books and other resources to support your studies and lecturers will expect you to read around the subject. Text books also contain useful worked examples and exercises. We will divide our reading lists into **essential reading**, which are resources that we expect everyone to use, **recommended reading**, which we think will be helpful, but not necessarily essential, and **further reading**, which will help you to extend your knowledge and understanding of the subject. We have a very good stock of text books in the Library but they are in constant demand, and you may find that you are able to study more effectively if you purchase your own copies of the essential texts. Details are given for the most recent editions of these books, but you may be able to obtain an older copy second hand. These would be perfectly acceptable too. here are also many other very good text books by other authors that would also be appropriate.

For your Chemistry units, all of the essential reading will be taken from the following books:

- Atkins' Physical Chemistry, 10th Edition, PW Atkins and J de Paula
Oxford University Press 2014 (ISBN 978-0-19-969740-3)
- Organic Chemistry, 2nd Edition, J Clayden, N Greeves, S Warren
Oxford University Press 2012 (ISBN 978-0-19-927029-3)
- Inorganic Chemistry, 6th Edition, M Weller, T Overton, J Rourke, and F Armstrong,
Oxford University Press 2014 (ISBN 978-0-19-964182-6)

There are two text books that we recommend for your first-year Mathematical Skills for Chemistry unit:

- The Chemistry Maths Book, 2nd Edition, E Steiner
Oxford University Press 2008 (ISBN 978-0-19-920535-6)

or

- Mathematics for Chemistry, 2nd Edition, P Monk and LJ Munro
Oxford University Press 2010 (ISBN 978-0-19-954129-4)

The Chemistry Maths Book is recommended for students who are already confident in the use of maths, and so would suit those who are taking both Maths and Further Maths at A level, or Higher Level Maths for International Baccalaureate. *Mathematics for Chemistry* takes a rather more gentle approach, and is better for those students who are starting from a slightly lower level. There is no need to buy both (although it will do you no harm at all to do so) as we do have copies in our departmental library.

For your first-year Communication & Information Skills in Chemistry unit we recommend

- Study and Communication Skills for the Chemical Sciences, 2nd Edition, T Overton, S Johnson, and J Scott
Oxford University Press 2015 (ISBN 978-0-19-870869-8)

All of these text books should be easily available, either from a local bookshop or online if you want to buy your books before you arrive. We have also arranged a special offer with Oxford University Press, who publish many of the chemistry texts that we recommend, so that our local bookshops should be able to offer a bundle of books at a discounted rate. A leaflet explaining how to order at the discount price is enclosed.

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For your Chemistry units throughout all years of the programmes, the majority of the essential reading will be taken from the following books:

- Atkins' Physical Chemistry, 10th Edition, PW Atkins and J de Paula
Oxford University Press 2014 (ISBN 978-0-19-969740-3)
- Inorganic Chemistry, 6th Edition, M Weller, T Overton, J Rourke, and F Armstrong,
Oxford University Press 2014 (ISBN 978-0-19-964182-6)

You will study a limited amount of organic chemistry in the first term and essential reading for this unit will be taken from

- Organic Chemistry, 2nd Edition, J Clayden, N Greeves, S Warren
Oxford University Press 2012 (ISBN 978-0-19-927029-3)

Essential reading for your Physics units will usually be taken from:

- Physics for Scientists and Engineers, 6th Edition, PA Tipler, GP Mosca
Freeman 2008 (ISBN 978-1-42-920265-7).

In your first year, you will also take two maths units. You may therefore find it helpful to have access to a copy of

- Mathematical Techniques: An Introduction for the Engineering, Physical, and Mathematical Sciences,
4th Edition, DW Jordan, P Smith
Oxford University Press 2008 (ISBN 978-0-19-928201-2)

All of these text books should be easily available, either from a local bookshop or online.