

Suggested Reading, 1st Year Chemistry

Students starting to study at QMUL often ask for information about recommended textbooks because their A-level courses typically followed one textbook. There are many ways in which studying at university is different from studying at school. For example, at university you will find that we rarely follow just one textbook. Instead, academic staff use lectures to introduce you to topics; you will then explore those topics in more detail during your independent study by using a variety of sources.

At the beginning of each module your lecturer will direct you towards sources relevant for that module. Below we have listed the key textbooks for the compulsory modules you will study in the first year. However, your lecturer may also direct you to other sources in addition to these.

Please note it is **not necessary to purchase all of the textbooks listed below**. There are some copies of the physical books available to borrow from the QMUL library, plus some textbooks also have an electronic version, which you will be able to access via the QMUL Library website. Note also that if the most recent edition is not available, the previous edition is often a good (and cheaper) substitute.

There is a bookshop (John Smith's) on the Mile End campus which offers a price match against Amazon, Waterstones and WHSmith. Further details of the price match can be found online.

Semester A & Semester B

CHE100 Essential Skills for Chemists

- Steiner, E. (2008) *The chemistry maths book*, 2nd edition. Oxford: Oxford University Press [QA37.3 STE]. *Note: an electronic version will be available after you have enrolled at QMUL.*
- Monk, P.M.S. & Munro, L.J. (2010) *Maths for chemistry: a chemist's toolkit of calculations*, 2nd edition. Oxford: Oxford University Press [QD39.3.M3 MON]
- Burrows, A. et al (2017) *Chemistry3: introducing inorganic, organic and physical chemistry*, 3rd edition. Oxford: Oxford University Press [QD33.2 BUR]
- Sivia, D.S. & Rawlings, S.G. (1999) *Foundations of science mathematics*. Oxford: Oxford University Press [QA37 SIV]

CHE101 Foundations of Practical Chemistry

- Dean, J.A. et al (2011) *Practical skills in chemistry*, 2nd edition. New York, NY: Pearson [QD33.2 PRA] *Note: an electronic version will be available after you have enrolled at QMUL.*

CHE102 Fundamentals of Organic Chemistry

- Clayden, J., Greeves, N. & Warren, S. (2012) *Organic chemistry*, 2nd edition. Oxford: Oxford University Press [QD251 CLA]. *Note: an electronic version will be available after you have enrolled at QMUL.*
- Burrows, A. et al (2017) *Chemistry3: introducing inorganic, organic and physical chemistry*, 3rd edition. Oxford: Oxford University Press [QD33.2 BUR]
- Klein, D.R. (2013) *Organic chemistry*, 2nd edition. Hoboken, NJ: Wiley [QD253.2KLE]

Semester A

CHE104 Fundamentals of Spectroscopy

- Burrows, A. et al (2017) *Chemistry3: introducing inorganic, organic and physical chemistry*, 3rd edition. Oxford: Oxford University Press [QD33.2 BUR]
- Clayden, J., Greeves, N. & Warren, S. (2012) *Organic chemistry*, 2nd edition. Oxford: Oxford University Press [QD251 CLA]. *Note: an electronic version will be available after you have enrolled at QMUL.*
- Atkins P.W. & De Paula, J. (2014) *Atkins' physical chemistry*, 10th edition. Oxford: Oxford University Press [QD453.A7 ATK]
- Hore, P.J. (2015) *Nuclear magnetic resonance*, 2nd edition. Oxford: Oxford University Press [QD96.N8 HOR]
- Brown, J.M. (1998) *Molecular spectroscopy*. Oxford: Oxford University Press [QD96.M65 BRO]
- Williams, D.H. (2008) *Spectroscopic methods in organic chemistry*, 6th edition. London: McGraw-Hill [QD95 WIL]

CHE113 Fundamentals of Inorganic Chemistry

- Housecroft, C. & Sharpe, A.G. (2012) *Inorganic chemistry*, 4th edition. New York, NY: Pearson [QD151.3 HOU]
- Burrows, A. et al (2017) *Chemistry3: introducing inorganic, organic and physical chemistry*, 3rd edition. Oxford: Oxford University Press [QD33.2 BUR]
- Atkins, P.W. (2010) *Shriver & Atkins' inorganic chemistry*, 5th edition. Oxford: Oxford University Press [QD151 SHR]
- Winter, M.J. (1994) *Chemical bonding*. Oxford: Oxford University Press [QD461 WIN]

Semester B

CHE108 States of Matter and Analytical Chemistry

- Burrows, A. et al (2017) Chemistry3: introducing inorganic, organic and physical chemistry, 3rd edition. Oxford: Oxford University Press [QD33.2 BUR]
- Atkins, P.W. (2010) Shriver & Atkins' inorganic chemistry, 5th edition. Oxford: Oxford University Press [QD151 SHR]
- Atkins P.W. & De Paula, J. (2014) Atkins' physical chemistry, 10th edition. Oxford: Oxford University Press [QD453.A7 ATK]
- Harris, D.C. (2016) Quantitative chemical analysis, 9th edition. New York, NY: W.H. Freeman & Company. [QD101.2 HAR]

CHE114 Fundamentals of Physical Chemistry

- Atkins P.W. & De Paula, J. (2014) Atkins' physical chemistry, 10th edition. Oxford: Oxford University Press [QD453.A7 ATK]