

'The book anticipates the needs of students perfectly. The text is clear and precise, and at times utterly delightful, with fantastic analogies that have remained in my head for weeks after reading it.'

Kirsty MacLeod, student, University of St Andrews, on the 2nd edition

'The absolute best bit of this book for me, as someone who struggles with maths, is the way that the mathematical problems are explained in simple steps that do not assume a high level of prior knowledge.'

Stuart Fisk, student, University of Essex, on the 2nd edition

'This book is the best of its kind on the market; Crowe and Bradshaw is superbly written, makes great use of analogy, and maintains a good biological focus.'

James McEvoy, Lecturer in Biological Chemistry, Royal Holloway, University of London, on the 2nd edition

Why do biologists need chemistry?

Chemistry enables our eyes to detect the world around us; it determines whether something tastes sweet or sour; it helps genetic information pass accurately from one generation to the next. Ultimately, chemistry powers life itself. We don't need to dig very deep to answer the question: why do biologists need chemistry?

Building on the success of its earlier editions, *Chemistry for the Biosciences* introduces you to all the chemistry needed to understand the biological world. Renowned for its clear and straightforward explanations, the book uses everyday examples and analogies throughout to help you get to grips with chemical concepts, and presents them in the context of biological systems wherever possible so you can see how chemistry relates to your wider studies.

New to this edition

- Chemical Toolkits explore the terminology essential to understanding chemistry, and complement the existing Maths Tools.
- A chapter on Metals in Biology reviews the importance of metals in biological systems, to complement the coverage of organic compounds in other chapters.
- Enhanced coverage of the nature of chemical reactions, including more detailed coverage of redox reactions and organic reaction mechanisms, gives you a deeper understanding of how and why compounds react in the way that they do.
- Mini tutorials online lead you through a range of key concepts to help you master even the most challenging topics.

Chemistry for the Biosciences includes many learning features – both in print and online – to help you grasp the essential concepts as quickly and thoroughly as possible. From the self-check questions that help you consolidate your learning, to the Chemical Toolkits and Maths Tools that help you use chemical terminology and numerical methods and skills with confidence, the book is written to be a true course companion for your biological or biomedical science degree – one that will help you not only remember the essentials, but really *understand* them, readying you for success in your later studies.



online resource centre

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Chemistry for the Biosciences is supported by an extensive Online Resource Centre, featuring:

For students:

- Multiple-choice questions to aid exam preparation and revision
- Full solutions to self-check questions
- Data analysis and numerical practice worksheets
- Mini tutorials that walk you through a range of key concepts introduced in the book

For registered adopters:

- Figures from the book in electronic format, ready to download
- A test bank of questions, with feedback linked to the text

