



General, Organic, and Biological Chemistry: Structures of Life (4th Edition)

By Karen C. Timberlake

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Designed to prepare students for health-related careers, *General, Organic, and Biological Chemistry: Structures of Life* breaks chemical concepts down into manageable pieces and offers a step-by-step approach that clarifies student understanding. Timberlake's friendly writing style, student focus, strong problems, and engaging, health-related applications make this book a best seller among its peers.

The **Fourth Edition** emphasizes connections between chemistry and students' future careers — and develops the problem-solving skills students need beyond the classroom. Each chapter now includes NEW **chapter-opening Career Interviews** and **Career Focus** features to illustrate the role chemistry plays in modern, health-related professions. A new **Analyze the Problem** feature furthers critical-thinking skills by showing students how to break down a word problem into the components needed to solve that problem. Throughout the new edition, national student performance data collected through MasteringChemistry® on assigned problems informed the extensive revisions to end-of-chapter problems, ensuring their effectiveness.

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Bibliography

- Sales Rank: #125662 in Books
- Brand: Prentice Hall
- Published on: 2012-01-06
- Ingredients: Example Ingredients
- Format: Abridged
- Original language: English
- Number of items: 1
- Dimensions: 10.90" h x 1.40" w x 8.80" l, 4.58 pounds
- Binding: Hardcover
- 936 pages

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Editorial Review

About the Author

Karen Timberlake is Professor Emerita of chemistry at Los Angeles Valley College, where she taught chemistry for allied health and preparatory chemistry for 36 years. She received her bachelor's degree in chemistry from the University of Washington and her master's degree in biochemistry from the University of California at Los Angeles.

Professor Timberlake has been writing chemistry textbooks for 35 years. During that time, her name has become associated with the strategic use of pedagogical tools that promote student success in chemistry and the application of chemistry to real-life situations. More than one million students have learned chemistry using texts, laboratory manuals, and study guides written by Karen Timberlake. In addition to *General, Organic, and Biological Chemistry: Structures of Life, Fourth Edition*, she is also the author of *Basic Chemistry, Third Edition*, and *Chemistry: An Introduction to General, Organic, and Biological Chemistry, Eleventh Edition* with the accompanying Study Guide, Selected Solutions Manual, Laboratory Manual, and Essential Laboratory Manual.

Professor Timberlake belongs to numerous science and educational organizations including the American Chemical Society (ACS) and the National Science Teachers Association (NSTA). She was the Western Regional Winner of Excellence in College Chemistry Teaching Award given by the Chemical Manufacturers Association. In 2004, she received the McGuffey Award in Physical Sciences from the Text and Academic Authors Association for her textbook Chemistry: An Introduction to General, Organic, and Biological Chemistry, eighth edition, which has demonstrated excellence over time. In 2006, she received the Textbook excellence award for the first edition of Basic Chemistry. She has participated in education grants for science teaching including the Los Angeles Collaborative for Teaching Excellence (LACTE) and a Title III grant at her college. She speaks at conferences and educational meetings on the use of student-centered teaching methods in chemistry to promote learning success of students.

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