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What Every Science Student Should Know (Chicago Guides To Academic Life)



Synopsis

I am often amazed at how much more capability and enthusiasm for science there is among elementary school youngsters than among college students. . . . We must understand and circumvent this dangerous discouragement. No one can predict where the future leaders of science will come from.â€”Carl Sagan

In 2012, the White House put out a call to increase the number of STEM graduates by one million. Since then, hundreds of thousands of science students have started down the path toward a STEM career. Yet, of these budding scientists, more than half of all college students planning to study science or medicine leave the field during their academic careers. What Every Science Student Should Know is the perfect personal mentor for any aspiring scientist. Like an experienced lab partner or frank advisor, the book points out the pitfalls while providing encouragement. Chapters cover the entire college experience, including choosing a major, mastering study skills, doing scientific research, finding a job, and, most important, how to foster and keep a love of science. This guide is a distillation of the authors' own experiences as recent science graduates, bolstered by years of research and interviews with successful scientists and other science students. The authorial team includes former editors-in-chief of the prestigious Dartmouth Undergraduate Journal of Science. All have weathered the ups and downs of undergrad lifeâ€”and all are still pursuing STEM careers. Fortright and empowering, What Every Science Student Should Know is brimming with insider advice on how to excel as both a student and a scientist.

Book Information

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Customer Reviews

A clear, engaging and instructive road map which explains what to expect and how to succeed as a science student. This book is long overdue and will prove invaluable for current science students, for aspiring students and for educators.

Every parent must encourage his/her child to acquire a fundamental understanding of the sciences. Absent this, a child will be limited in his/her career options. What every Science Student Should Know should actually be read by parents seeking to steer their children in the right direction. Excellent job by the authors. Clear and to the point.

Reading few chapters was more helpful than talking with my academic and career service advisors. The book features helpful, tangible tips from high-achieving STEM students (Rhodes, Goldwater, Marshall scholars) on how to succeed academically and socially. STEM is a hard field, but the book provides the reader with the knowledge to overcome the challenges of being a STEM major (test anxiety, procrastination, etc.). The book also offers helpful graduate school and professional advice that will be useful down the road. If you are an undergraduate interested in majoring and/or working in the STEM field, I would highly recommend the book.

As an educator and advocate for STEM for my students, I found this book to be a well-written and highly informative collection of best practices in learning and excelling in STEM. I also found it very inspiring to see that a section was dedicated to supporting underrepresented students in STEM, as I work with my underrepresented students who all want to see themselves in STEM careers, but lack the knowledge of the strategies presented in this book to fulfill their goals. I will certainly be using this book throughout the year to share with other educators and students!

Excellent! It really should be read by all new freshmen STEM majors!

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