

# do business majors need calculus

**do business majors need calculus** is a question that many prospective students ponder when considering their academic and career paths. The relevance of calculus to business majors is often debated, as the subject can appear daunting and unnecessary at first glance. However, understanding calculus and its applications can provide valuable insights into various business functions, such as economics, finance, and operations management. This article will explore the necessity of calculus for business majors, its practical applications, and alternatives to calculus that students might consider. By shedding light on these aspects, readers will gain a comprehensive understanding of how calculus fits into the business education landscape.

- Understanding the Role of Calculus in Business
- Applications of Calculus in Business Fields
- Alternatives to Calculus for Business Majors
- Benefits of Learning Calculus for Business Students
- Conclusion: Is Calculus Essential for Business Majors?

## Understanding the Role of Calculus in Business

Calculus is a branch of mathematics that deals with continuous change, which makes it particularly useful in various fields, including business. Its primary components, differentiation and integration, allow for the analysis of functions and models that describe economic behaviors and trends. Business majors often encounter calculus in their coursework, particularly in areas related to economics and quantitative methods.

At its core, calculus helps students understand how different variables interact and affect one another. For instance, when analyzing how changes in price can influence demand, calculus provides a framework for understanding these relationships more quantitatively. This analytical approach is crucial for making informed business decisions based on data.

## Types of Calculus Relevant to Business

There are two main types of calculus that are particularly relevant to business majors: differential calculus and integral calculus. Each serves a different purpose in analyzing and interpreting data.

- **Differential Calculus:** This type focuses on rates of change and slopes of curves, which can help in understanding how small changes in one variable can affect another. For example, businesses can use

differential calculus to determine the marginal cost or marginal revenue, assisting them in optimizing production levels.

- **Integral Calculus:** Integral calculus deals with accumulation and areas under curves. It is useful for calculating total profit over a period or understanding consumer surplus in economics. This can be particularly relevant for finance majors, who often evaluate the total value of investments over time.

## **Applications of Calculus in Business Fields**

The applications of calculus extend across various business disciplines, showcasing its versatility and importance. Below are several business fields where calculus plays a vital role:

### **1. Economics**

In economics, calculus is utilized to model and analyze economic phenomena. Concepts such as elasticity of demand, optimization of production, and cost minimization rely heavily on calculus principles. For example, economists use derivatives to find maximum profit or minimum cost scenarios.

### **2. Finance**

Calculus is crucial in finance, particularly in areas such as risk assessment and investment analysis. Financial derivatives, which are contracts whose value depends on the price of an underlying asset, often require an understanding of calculus for pricing models. Concepts such as the Black-Scholes formula for options pricing utilize differential calculus extensively.

### **3. Operations Management**

In operations management, calculus helps in optimizing processes and resource allocation. Techniques such as linear programming and queuing theory often involve calculus to determine the best strategies for minimizing costs and maximizing efficiency. Understanding how to model these operations mathematically can lead to significant improvements in productivity.

## **Alternatives to Calculus for Business Majors**

While calculus is beneficial for many business majors, not all programs require it. Some students may choose alternative courses that can also provide valuable quantitative skills without the complexity of calculus.

These alternatives may include:

- **Statistics:** A strong foundation in statistics is essential for data analysis, market research, and decision-making processes. Many business programs emphasize statistics as a core component of their curriculum.
- **Quantitative Business Methods:** These courses focus on modeling and decision-making techniques that are more applicable to real-world business scenarios without delving into calculus.
- **Finance and Accounting Basics:** Understanding basic principles in finance and accounting can often substitute for calculus in practical business applications.

## Benefits of Learning Calculus for Business Students

Even if calculus is not a strict requirement for all business majors, there are numerous benefits to learning it. Some of these advantages include:

- **Enhanced Problem-Solving Skills:** Studying calculus helps develop critical thinking and analytical skills, which are invaluable in any business context.
- **Improved Understanding of Economic Models:** Familiarity with calculus allows students to better grasp complex economic theories and models, giving them an edge in courses and discussions.
- **Career Opportunities:** Certain fields, such as finance and economics, often favor candidates with a strong mathematical background. Proficiency in calculus can open doors to more advanced positions.

## Conclusion: Is Calculus Essential for Business Majors?

The question of whether business majors need calculus ultimately depends on their specific career goals and the requirements of their chosen academic programs. While not every business major will require calculus, understanding its principles can significantly enhance a student's analytical capabilities and marketability in the job market. For those pursuing careers in finance, economics, or operations management, calculus is undeniably beneficial. Conversely, students in other business disciplines may find sufficient alternatives that allow them to succeed without a deep dive into calculus. Regardless of the path chosen, a solid foundation in quantitative reasoning will undoubtedly prove advantageous.

**Q: Do all business majors require calculus?**

A: Not all business majors require calculus. The necessity depends on the specific focus of the program, with fields like finance and economics often requiring it, while others may offer alternatives.

**Q: What are the main topics covered in business calculus?**

A: Business calculus typically covers topics such as derivatives, integrals, optimization, and applications in economics and finance, focusing on practical business scenarios.

**Q: Can I succeed in business without taking calculus?**

A: Yes, many students succeed in business without taking calculus by focusing on alternative courses such as statistics or quantitative business methods, which provide essential skills.

**Q: How can calculus be applied in finance?**

A: In finance, calculus is used to model pricing of financial derivatives, assess risk, and optimize investment strategies, making it crucial for advanced financial analysis.

**Q: What are the advantages of understanding calculus for business students?**

A: Understanding calculus enhances problem-solving skills, improves comprehension of economic models, and may open up more career opportunities, especially in quantitative fields.

**Q: Is statistics a good alternative to calculus for business majors?**

A: Yes, statistics is an excellent alternative, as it equips students with essential data analysis skills that are highly applicable in various business contexts.

**Q: How important is mathematical reasoning in business education?**

A: Mathematical reasoning is very important in business education, as it helps students analyze data, make informed decisions, and understand complex business models.

**Q: Are there online resources for learning business**

## calculus?

A: Yes, there are numerous online resources, including courses, tutorials, and videos, that can help students learn business calculus at their own pace.

## Q: What should I do if I struggle with calculus?

A: If you struggle with calculus, consider seeking tutoring, joining study groups, or using online resources. Additionally, focusing on related subjects like statistics may provide a more comfortable entry point into quantitative analysis.

## Do Business Majors Need Calculus

Find other PDF articles:

<https://explore.gcts.edu/workbooks-suggest-003/files?docid=Muf35-5332&title=workbooks-for-kindergarten-pdf.pdf>

**do business majors need calculus: Math Anxiety—How to Beat It!** Brian Cafarella, 2025-06-23 How do we conquer uncertainty, insecurity, and anxiety over college mathematics? You can do it, and this book can help. The author provides various techniques, learning options, and pathways. Students can overcome the barriers that thwart success in mathematics when they prepare for a positive start in college and lay the foundation for success. Based on interviews with over 50 students, the book develops approaches to address the struggles and success these students shared. Then the author took these ideas and experiences and built a process for overcoming and achieving when studying not only the mathematics many colleges and universities require as a minimum for graduation, but more to encourage reluctant students to look forward to their mathematics courses and even learn to embrace additional ones Success breeds interest, and interest breeds success. Math anxiety is based on test anxiety. The book provides proven strategies for conquering test anxiety. It will help find ways to interest students in succeeding in mathematics and assist instructors on pathways to promote student interest, while helping them to overcome the psychological barriers they face. Finally, the author shares how math is employed in the “real world,” examining how both STEM and non- STEM students can employ math in their lives and careers. Ultimately, both students and teachers of mathematics will better understand and appreciate the difficulties and how to attack these difficulties to achieve success in college mathematics. Brian Cafarella, Ph.D. is a mathematics professor at Sinclair Community College in Dayton, Ohio. He has taught a variety of courses ranging from developmental math through pre-calculus. Brian is a past recipient of the Roueche Award for teaching excellence. He is also a past recipient of the Ohio Magazine Award for excellence in education. Brian has published in several peer- reviewed journals. His articles have focused on implementing best practices in developmental math and various math pathways for community college students. Additionally, Brian was the recipient of the Article of the Year Award for his article, “Acceleration and Compression in Developmental Mathematics: Faculty Viewpoints” in the Journal of Developmental Education.

**do business majors need calculus: MVT: A Most Valuable Theorem** Craig Smorynski, 2017-04-07 This book is about the rise and supposed fall of the mean value theorem. It discusses the evolution of the theorem and the concepts behind it, how the theorem relates to other fundamental results in calculus, and modern re-evaluations of its role in the standard calculus course. The mean

value theorem is one of the central results of calculus. It was called “the fundamental theorem of the differential calculus” because of its power to provide simple and rigorous proofs of basic results encountered in a first-year course in calculus. In mathematical terms, the book is a thorough treatment of this theorem and some related results in the field; in historical terms, it is not a history of calculus or mathematics, but a case study in both. MVT: A Most Valuable Theorem is aimed at those who teach calculus, especially those setting out to do so for the first time. It is also accessible to anyone who has finished the first semester of the standard course in the subject and will be of interest to undergraduate mathematics majors as well as graduate students. Unlike other books, the present monograph treats the mathematical and historical aspects in equal measure, providing detailed and rigorous proofs of the mathematical results and even including original source material presenting the flavour of the history.

**do business majors need calculus: Guide to College Majors 2008** Princeton Review, Princeton Review Publishing Staff, 2005-02 Provides information on over three hundred common college majors, from accounting to zoology, including related fields, prior high school subjects, possible courses of study, and career and salary prospects for graduates.

**do business majors need calculus: Statistics for Business and Financial Economics** Cheng-Few Lee, John C. Lee, Alice C. Lee, 2013-03-12 Statistics for Business and Financial Economics, 3rd edition is the definitive Business Statistics book to use Finance, Economics, and Accounting data throughout the entire book. Therefore, this book gives students an understanding of how to apply the methodology of statistics to real world situations. In particular, this book shows how descriptive statistics, probability, statistical distributions, statistical inference, regression methods, and statistical decision theory can be used to analyze individual stock price, stock index, stock rate of return, market rate of return, and decision making. In addition, this book also shows how time-series analysis and the statistical decision theory method can be used to analyze accounting and financial data. In this fully-revised edition, the real world examples have been reconfigured and sections have been edited for better understanding of the topics. On the Springer page for the book, the solution manual, test bank and powerpoints are available for download.

**do business majors need calculus: Choose Your College Major in a Day** Laurence Shatkin, 2015-05-15 Written by a leading expert on career information, this book is the ultimate guide to choosing your college major! It's the ideal resource if you need to decide on a college major but don't have a lot of time. Following its proven strategy, you will combine insights about yourself with up-to-date facts and reach a decision. The first part will guide you through assessing your personality type, your skills, and your favorite and best high school courses and help you find potential majors that fit your profile. In the second part, college majors are described with a definition, related high school courses, specializations, a list of common course requirements, a typical career path, and a list of related occupations. All related occupations are described with a definition, annual earnings averages, employment outlook, personality type, top skills, typical entry requirements, and related college majors. Finally, the last part will help you weigh the pluses and minuses of the majors on your list, making a tentative choice, and ultimately testing and confirming that choice.

**do business majors need calculus: Teaching Economics** William E. Becker, Suzanne R. Becker, Michael W. Watts, 2006-01-25 Teaching Economics is an invaluable and practical tool for teachers of economics, administrators responsible for undergraduate instruction and graduate students who are just beginning to teach. Each chapter includes specific teaching tips for classroom implementation and summary lists of do's and don'ts for instructors who are thinking of moving beyond the lecture method of traditional chalk and talk.--BOOK JACKET.

**do business majors need calculus: Undergraduate Mathematics for the Life Sciences** Glenn Ledder, Jenna P. Carpenter, Timothy D. Comar, 2013 There is a gap between the extensive mathematics background that is beneficial to biologists and the minimal mathematics background biology students acquire in their courses. The result is an undergraduate education in biology with very little quantitative content. New mathematics courses must be devised with the needs of biology students in mind. In this volume, authors from a variety of institutions address some of the problems

involved in reforming mathematics curricula for biology students. The problems are sorted into three themes: Models, Processes, and Directions. It is difficult for mathematicians to generate curriculum ideas for the training of biologists so a number of the curriculum models that have been introduced at various institutions comprise the Models section. Processes deals with taking that great course and making sure it is institutionalized in both the biology department (as a requirement) and in the mathematics department (as a course that will live on even if the creator of the course is no longer on the faculty). Directions looks to the future, with each paper laying out a case for pedagogical developments that the authors would like to see.

**do business majors need calculus:** *Advanced Topics in End User Computing, Volume 1* Mahmood, Mo Adam, 2001-07-01 Advanced Topics in End User Computing features the latest research findings dealing with end user computing concepts, issues, and trends. It provides a forum to both academics and information technology practitioners to advance the practice and understanding of end user computing in organizations. Empirical and theoretical research concerned with all aspects of end user computing including development, utilization and management are included.

**do business majors need calculus:** *The Art of Spiritual Warfare* Winston Shadrack Kangero, 2015-09-08 This book will take you from being a novice in spiritual warfare to an advanced spiritual worrier. You will transform yourself from being a sinner to being an accepted child of God, from faith to faith and glory to glory. It will take you through a journey of spiritual enlightenment. It exposes the hidden agendas of the powers that be and hidden forces in our lives that battle against each other for ages on end. Blessed are they that read and they that hear and listen to the words of this prophecy and keep those things which are written therein: for the time is at hand, Revelation 1:3.

**do business majors need calculus:** How to Teach Mathematics Steven G. Krantz, 2015-10-07 This third edition is a lively and provocative tract on how to teach mathematics in today's new world of online learning tools and innovative teaching devices. The author guides the reader through the joys and pitfalls of interacting with modern undergraduates--telling you very explicitly what to do and what not to do. This third edition has been streamlined from the second edition, but still includes the nuts and bolts of good teaching, discussing material related to new developments in teaching methodology and technique, as well as adding an entire new chapter on online teaching methods.

**do business majors need calculus:** New Formulas for America's Workforce , 2003

**do business majors need calculus:** Current Practices in Quantitative Literacy Rick Gillman, 2006 Presents a wide sampling of efforts being made on campuses across the country to achieve our common goal of having a quantitatively literate citizenry.

**do business majors need calculus:** **Statistics for Business and Financial Economics** Cheng F. Lee, John C. Lee, Alice C. Lee, 2000 This text integrates various statistical techniques with concepts from business, economics and finance, and demonstrates the power of statistical methods in the real world of business. This edition places more emphasis on finance, economics and accounting concepts with updated sample data.

**do business majors need calculus:** Book of Majors 2013 College Entrance Examination Board, The College Board, 2012-07-03 An in-depth look at the top 200 college majors and a guide to 3600 colleges offering any or all of these programs.

**do business majors need calculus:** **Proceedings** , 1977

**do business majors need calculus:** **Directory of Awards** National Science Foundation (U.S.). Directorate for Science and Engineering Education, 1987

**do business majors need calculus:** **Count Me In** Della Dumbaugh, Deanna Haunsperger, 2022-02-24 This groundbreaking work explores the powerful role of communities in mathematics. It introduces readers to twenty-six different mathematical communities and addresses important questions about how they form, how they thrive, and how they advance individuals and the group as a whole. The chapters celebrate how diversity and sameness bind colleagues together, showing how

geography, gender, or graph theory can create spaces for colleagues to establish connections in the discipline. They celebrate outcomes measured by mathematical results and by increased interest in studying mathematics. They highlight the value of relationships with peers and colleagues at various stages of their careers. Together, these stories offer a guide—rather than a template—for building and sustaining a mathematical community. They call attention to critical strategies of rotating leadership and regular assessment and evaluation of goals and programs, and promote an ongoing awareness of the responsibilities of life that impinge on mathematical creativity and contributions. Whether you are giving thought to starting a group, joining one already in existence, or encouraging a colleague to participate in the broader mathematical community, this book will meet you where you are—and move you beyond. It contains a plethora of ideas to foster a sense of belonging in the exciting discipline of mathematics.

**do business majors need calculus: A Baby Boomer's Guide to Their Second Sixties** Ryan Custer Amacher, 2012-03-15 While this book was written for male Baby Boomers and their significant others, it also includes Boomer history and what lies ahead as we experience the decade of our own sixties. This story reviews our Boomer luck, recounts the great history of being a kid in the 1950s, and the great opportunities provided by improved education in the 1960s, not to ignore a seemingly mind expanding culture. Turning sixty is not for the faint hearted. There are issues ahead. The first thing we all face is taking care of aging parents or what the author refers to as helping your parents check out. Then there are our own Boomer health issues including cataracts and prostate cancer. You likely think there is nothing funny about these topics but the quirky economist author finds humor in all of our aging experiences. This book covers Boomer issues, all in the context of our Boomer culture. We Boomers thought we would be young forever. Maybe that is why it is so amusing. RYAN CUSTER AMACHER was born 52 days too early to be an “official” Baby Boomer, but he in no way ever considered himself a member of Tom Brokaw’s “Greatest Generation.” In this book, the author chronicles the good luck of the first sixty years of the Boomer experience and guides Boomers into the humorous, but sobering experience of their personal sixties. Amacher, an economist, has a BA degree from Ripon College and a PhD from the University of Virginia. He has been a professor at the University of Oklahoma, Economics Department Chair at Arizona State, Business Dean at Clemson University, and President of the University of Texas at Arlington where he is now a Professor of Economics. He has worked at the Pentagon, writing a market plan for the All-Volunteer Army, the Federal Trade Commission as a consultant, and the US Treasury, on the Law of The Sea negotiations.

**do business majors need calculus: Proceedings of Conference on Computers in the Undergraduate Curricula** , 1977

**do business majors need calculus: What Can You Do with a Major in Business?** Kate Shoup, 2007-08-13 Your guide to glide from campus to career Make sure you get a good ROI (Return on Investment) from your college courses and career choices. Whether you're a student pounding the books or a graduate pounding the pavement, What Can You Do with a Major in Business? alerts you to diverse job options, some of which you probably haven't considered. It addresses specific concerns of business majors with valuable information, including: \* Advice on college and curriculum choices--courses, internships, advanced degrees, and more \* Tips to energize and expand your job search \* Profiles of real graduates, their jobs, and how they got them \* Objective audits of their careers from the manager of a recreational facility, a city/county administrator, a marketing field representative, a public relations specialist, and an import/export broker \* Overviews of typical salary levels, hours, and work environments \* Extensive additional resources, including Web sites, professional organizations, periodicals, and more With practical information and enlightening insight from your peers in business careers, this book helps you analyze opportunities and choose a career that lets you make the most of your assets. Bottom line, that's the key to success.



## Related to do business majors need calculus

**Osteopathic medicine: What kind of doctor is a D.O.? - Mayo Clinic** You know what M.D. means, but what does D.O. mean? What's different and what's alike between these two kinds of health care providers?

**Statin side effects: Weigh the benefits and risks - Mayo Clinic** Statins lower cholesterol and protect against heart attack and stroke. But they may lead to side effects in some people. Healthcare professionals often prescribe statins for people

**Arthritis pain: Do's and don'ts - Mayo Clinic** Arthritis is a leading cause of pain and limited mobility worldwide. There's plenty of advice on managing arthritis and similar conditions with exercise, medicines and stress

**Long COVID: Lasting effects of COVID-19 - Mayo Clinic** COVID-19 can have lasting symptoms that affect many parts of the body. Learn more about the symptoms and effects of long COVID

**Calorie Calculator - Mayo Clinic** If you're pregnant or breast-feeding, are a competitive athlete, or have a metabolic disease, such as diabetes, the calorie calculator may overestimate or underestimate your actual calorie needs

**Shingles - Symptoms & causes - Mayo Clinic** Shingles is a viral infection that causes a painful rash. Shingles can occur anywhere on your body. It typically looks like a single stripe of blisters that wraps around the

**Creatine - Mayo Clinic** Find out how creatine might affect your athletic performance and how the supplement interacts with other drugs

**Treating COVID-19 at home: Care tips for you and others** COVID-19 can sometimes be treated at home. Understand emergency symptoms to watch for, how to protect others if you're ill, how to protect yourself while caring for a sick loved

**Vitamin B-12 - Mayo Clinic** Know the causes of a vitamin B-12 deficiency and when use of this supplement is recommended

**Parkinson's disease - Symptoms and causes - Mayo Clinic** 3 days ago Parkinson's disease is a movement disorder of the nervous system that worsens over time. The nervous system is a network of nerve cells that controls many parts of the

**Osteopathic medicine: What kind of doctor is a D.O.? - Mayo Clinic** You know what M.D. means, but what does D.O. mean? What's different and what's alike between these two kinds of health care providers?

**Statin side effects: Weigh the benefits and risks - Mayo Clinic** Statins lower cholesterol and protect against heart attack and stroke. But they may lead to side effects in some people. Healthcare professionals often prescribe statins for people

**Arthritis pain: Do's and don'ts - Mayo Clinic** Arthritis is a leading cause of pain and limited mobility worldwide. There's plenty of advice on managing arthritis and similar conditions with exercise, medicines and stress

**Long COVID: Lasting effects of COVID-19 - Mayo Clinic** COVID-19 can have lasting symptoms that affect many parts of the body. Learn more about the symptoms and effects of long COVID

**Calorie Calculator - Mayo Clinic** If you're pregnant or breast-feeding, are a competitive athlete, or have a metabolic disease, such as diabetes, the calorie calculator may overestimate or underestimate your actual calorie needs

**Shingles - Symptoms & causes - Mayo Clinic** Shingles is a viral infection that causes a painful rash. Shingles can occur anywhere on your body. It typically looks like a single stripe of blisters that wraps around the

**Creatine - Mayo Clinic** Find out how creatine might affect your athletic performance and how the supplement interacts with other drugs

**Treating COVID-19 at home: Care tips for you and others** COVID-19 can sometimes be treated at home. Understand emergency symptoms to watch for, how to protect others if you're ill, how to protect yourself while caring for a sick loved

**Vitamin B-12 - Mayo Clinic** Know the causes of a vitamin B-12 deficiency and when use of this supplement is recommended

**Parkinson's disease - Symptoms and causes - Mayo Clinic** 3 days ago Parkinson's disease is a movement disorder of the nervous system that worsens over time. The nervous system is a network of nerve cells that controls many parts of the body,

**Osteopathic medicine: What kind of doctor is a D.O.? - Mayo Clinic** You know what M.D. means, but what does D.O. mean? What's different and what's alike between these two kinds of health care providers?

**Statin side effects: Weigh the benefits and risks - Mayo Clinic** Statins lower cholesterol and protect against heart attack and stroke. But they may lead to side effects in some people. Healthcare professionals often prescribe statins for people

**Arthritis pain: Do's and don'ts - Mayo Clinic** Arthritis is a leading cause of pain and limited mobility worldwide. There's plenty of advice on managing arthritis and similar conditions with exercise, medicines and stress

**Long COVID: Lasting effects of COVID-19 - Mayo Clinic** COVID-19 can have lasting symptoms that affect many parts of the body. Learn more about the symptoms and effects of long COVID

**Calorie Calculator - Mayo Clinic** If you're pregnant or breast-feeding, are a competitive athlete, or have a metabolic disease, such as diabetes, the calorie calculator may overestimate or underestimate your actual calorie needs

**Shingles - Symptoms & causes - Mayo Clinic** Shingles is a viral infection that causes a painful rash. Shingles can occur anywhere on your body. It typically looks like a single stripe of blisters that wraps around the

**Creatine - Mayo Clinic** Find out how creatine might affect your athletic performance and how the supplement interacts with other drugs

**Treating COVID-19 at home: Care tips for you and others** COVID-19 can sometimes be treated at home. Understand emergency symptoms to watch for, how to protect others if you're ill, how to protect yourself while caring for a sick loved

**Vitamin B-12 - Mayo Clinic** Know the causes of a vitamin B-12 deficiency and when use of this supplement is recommended

**Parkinson's disease - Symptoms and causes - Mayo Clinic** 3 days ago Parkinson's disease is a movement disorder of the nervous system that worsens over time. The nervous system is a network of nerve cells that controls many parts of the

**Osteopathic medicine: What kind of doctor is a D.O.? - Mayo Clinic** You know what M.D. means, but what does D.O. mean? What's different and what's alike between these two kinds of health care providers?

**Statin side effects: Weigh the benefits and risks - Mayo Clinic** Statins lower cholesterol and protect against heart attack and stroke. But they may lead to side effects in some people. Healthcare professionals often prescribe statins for people

**Arthritis pain: Do's and don'ts - Mayo Clinic** Arthritis is a leading cause of pain and limited mobility worldwide. There's plenty of advice on managing arthritis and similar conditions with exercise, medicines and stress

**Long COVID: Lasting effects of COVID-19 - Mayo Clinic** COVID-19 can have lasting symptoms that affect many parts of the body. Learn more about the symptoms and effects of long COVID

**Calorie Calculator - Mayo Clinic** If you're pregnant or breast-feeding, are a competitive athlete, or have a metabolic disease, such as diabetes, the calorie calculator may overestimate or underestimate your actual calorie needs

**Shingles - Symptoms & causes - Mayo Clinic** Shingles is a viral infection that causes a painful rash. Shingles can occur anywhere on your body. It typically looks like a single stripe of blisters that wraps around the

**Creatine - Mayo Clinic** Find out how creatine might affect your athletic performance and how the supplement interacts with other drugs

**Treating COVID-19 at home: Care tips for you and others** COVID-19 can sometimes be treated at home. Understand emergency symptoms to watch for, how to protect others if you're ill, how to protect yourself while caring for a sick loved

**Vitamin B-12 - Mayo Clinic** Know the causes of a vitamin B-12 deficiency and when use of this supplement is recommended

**Parkinson's disease - Symptoms and causes - Mayo Clinic** 3 days ago Parkinson's disease is a movement disorder of the nervous system that worsens over time. The nervous system is a network of nerve cells that controls many parts of the

Back to Home: <https://explore.gcts.edu>