

Webassign Answers Calculus 2

Introductory Statistics is designed for the one-semester, introduction to statistics course and is geared toward students majoring in fields other than math or engineering. This text assumes students have been exposed to intermediate algebra, and it focuses on the applications of statistical knowledge rather than the theory behind it. The foundation of this textbook is Collaborative Statistics, by Barbara Illowsky and Susan Dean. Additional topics, examples, and ample opportunities for practice have been added to each chapter. The development choices for this textbook were made with the guidance of many faculty members who are deeply involved in teaching this course. These choices led to innovations in art, terminology, and practical applications, all with a goal of increasing relevance and accessibility for students. We strove to make the discipline meaningful, so that students can draw from it a working knowledge that will enrich their future studies and help them make sense of the world around them. Coverage and Scope Chapter 1 Sampling and Data Chapter 2 Descriptive Statistics Chapter 3 Probability Topics Chapter 4 Discrete Random Variables Chapter 5 Continuous Random Variables Chapter 6 The Normal Distribution Chapter 7 The Central Limit Theorem Chapter 8 Confidence Intervals Chapter 9 Hypothesis Testing with One Sample Chapter 10 Hypothesis Testing with Two Samples Chapter 11 The Chi-Square Distribution Chapter 12 Linear Regression and Correlation Chapter 13 F Distribution and One-Way ANOVA

Ensure your success! Purchase the value package?textbook and Student?Solutions manual for the price of the textbook alone! That's?a \$32.95 savings! (Set ISBN: 0471654930) Textbook: Achieving a fine balance between the concepts and procedures of calculus, this applied Calculus text provides students with the solid background they need in the subject with a thorough understanding of its applications in a wide range of fields ? from biology to economics. Key features of this innovative text include: The text is problem driven and features exceptional exercises based on real-world applications. The authors provide alternative avenues through which students can understand the material. Each topic is presented four ways: geometrically, numerically, analytically, and verbally. Students are encouraged to interpret answers and explain their reasoning throughout the book, which the author considers a unique concept compared to other books. Many of the real-world problems are open-ended, meaning that there may be more than one approach and more than one solution, depending on the student's analysis. Solving a problem often relies on the use of common sense and critical thinking skills. Students are encouraged to develop estimating and approximating skills. The book presents the main ideas of calculus in a clear, simple manner to improve students' understanding and encourage them to read the examples. Technology is used as a tool to help students visualize the concepts and learn to think mathematically. Graphics calculators, graphing software, or computer algebra systems perfectly complement this book but the emphasis is on the calculus concepts rather than the technology. (Textbook ISBN: 0471207926) Student Solutions Manual: Provides complete solutions to every odd exercise in the text. These solutions will help you develop the strong foundation you need to succeed in your Calculus class and allow you to finish the course with the foundation that you need to apply the calculus you learned to subsequent courses. (Solutions Manual ISBN: 0471213624)

In this best selling Precalculus text, the authors explain concepts simply and clearly, without glossing over difficult points. This comprehensive, evenly-paced book provides complete coverage of the function concept and integrates substantial graphing calculator materials that help students develop insight into mathematical ideas. This author team invests the same attention to detail and clarity as Jim Stewart does in his market-leading Calculus text. Contains fully worked-out solutions to all of the odd-numbered exercises in the text, giving students a way to check their answers and ensure that they took the correct steps to arrive at an answer. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Discrete Mathematics with Applications
Essential Calculus: Early Transcendentals
Single Variable Calculus
Precalculus, Enhanced WebAssign Edition*

Full of relevant, diverse, and current real-world applications, Stefan Waner and Steven Costenoble's FINITE MATHEMATICS AND APPLIED CALCULUS, Sixth Edition helps you relate to mathematics. A large number of the applications are based on real, referenced data from business, economics, the life sciences, and the social sciences. Thorough, clearly delineated spreadsheet and TI Graphing Calculator instruction appears throughout the book. Acclaimed for its readability and supported by the authors' popular website, this book will help you grasp and understand mathematics--whatever your learning style may be. Available with InfoTrac Student Collections <http://goconengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Known for its accessible, precise approach, Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

In this version of his best-selling text, Stewart has reorganized the material so professors can teach transcendental functions (more than just trigonometric functions) early, before the definite integral. This variation introduces the derivative of the log and exponential functions at the same time as the polynomial functions and develops other transcendental functions prior to the introduction of the definite integral..In the new Third Edition, Stewart retains the focus on problem solving, the meticulous accuracy, the patient explanations, and the carefully graded problems that have made this text work so well for a wide range of students. In the new edition, Stewart has increased his emphasis on technology and innovation and has expanded his focus on problem-solving and applications. ..When writing his previous editions, Stewart set out to bring some of the spirit of Polya to his presentation. This resulted in the "strategy sections" in the First Edition and the "Problems Plus" and "Applications Plus" sections in the Second Edition. Now in the Third Edition, he extends the idea further with a new section on "Principles of Problem Solving" and new extended examples in the "Problems Plus" and "Applications Plus" sections. Stewart makes a serious attempt to help students reason mathematically.

New from James Stewart and Daniel Clegg, BRIEF APPLIED CALCULUS takes an intuitive, less formal approach to calculus without sacrificing the mathematical integrity. Featuring a wide range of applications designed to motivate students with a variety of interests, clear examples detailing important mathematical processes, and a vast collection of exercises appropriate for students with disparate skill sets, this first edition is perfect for students who need to learn how to apply calculus concepts rather than replicate the formal proofs behind the techniques. Early coverage of exponential and logarithmic functions allows for the inclusion of many interesting applications throughout the text. Available with a range of supplements including Enhanced WebAssign, BRIEF APPLIED CALCULUS makes calculus approachable so any student can understand the concepts and be successful in the course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Calculus I with Integrated Precalculus
Mathematics: Journey from Basic Mathematics through Intermediate Algebra
College Physics
Elementary Differential Equations*

This book is for instructors who think that most calculus textbooks are too long. In writing the book, James Stewart asked himself: What is essential for a three-semester calculus course for scientists and engineers? ESSENTIAL CALCULUS: EARLY TRANSCENDENTALS, Second Edition, offers a concise approach to teaching calculus that focuses on major concepts, and supports those concepts with precise definitions, patient explanations, and carefully graded problems. The book is only 900 pages--two-thirds the size of Stewart's other calculus texts, and yet it contains almost all of the same topics. The author achieved this relative brevity primarily by condensing the exposition and by putting some of the features on the book's website, www.StewartCalculus.com. Despite the more compact size, the book has a modern flavor, covering technology and incorporating material to promote conceptual understanding, though not as prominently as in Stewart's other books. ESSENTIAL CALCULUS: EARLY TRANSCENDENTALS features the same attention to detail, eye for innovation, and meticulous accuracy that have made Stewart's textbooks the best-selling calculus texts in the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

With the same design and feature sets as the market leading Precalculus, 8/e, this addition to the Larson Precalculus series provides both students and instructors with sound, consistently structured explanations of the mathematical concepts. Designed for a two-term course, this text contains the features that have made Precalculus a complete solution for both students and instructors: interesting applications, cutting-edge design, and innovative technology combined with an abundance of carefully written exercises. In addition to a brief algebra review and the core precalculus topics, PRECALCULUS WITH LIMITS covers analytic geometry in three dimensions and introduces concepts covered in calculus. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This text for the one semester applied or business calculus course uses intriguing real-world applications to engage students' interest and show them the practical side of calculus. The book's many applications are related to finance, business, and such general-interest topics as learning curves in airplane production, the age of the Dead Sea Scrolls, Apple and Oracle stock prices, the distance traveled by sports cars, lives saved by seat belts, and the cost of a congressional victory. The Sixth Edition maintains the hallmark features that have made APPLIED CALCULUS so popular: contemporary and interesting applications (including many that are new or updated); careful and effective use of technology, including graphing calculator and spreadsheet coverage; constant pedagogical reinforcement through section summaries, chapter summaries, annotated examples, and extra practice problems; Just-in-Time algebra review material; and a variety of exercises and assignment options including Applied Exercises, Conceptual Exercises, and Explorations and Excursions. This edition also includes new content and features to help students get up to speed-and succeed-in the course, including a Diagnostic Test, an Algebra Review appendix, marginal notes that make connections with previous or future discussions, new learning prompts to direct students to examples or to the Algebra Review, and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Designed for the three-semester engineering calculus course, CALCULUS: EARLY TRANSCENDENTAL FUNCTIONS, Sixth Edition, continues to offer instructors and students innovative teaching and learning resources. The Larson team always has two main objectives for text revisions: to develop precise, readable materials for students that clearly define and demonstrate concepts and rules of calculus; and to design comprehensive teaching resources for instructors that employ proven pedagogical techniques and save time. The Larson/Edwards Calculus program offers a solution to address the needs of any calculus course and any level of calculus student. Every edition from the first to the sixth of CALCULUS: EARLY TRANSCENDENTAL FUNCTIONS has made the mastery of traditional calculus skills a priority, while embracing the best features of new technology and, when appropriate, calculus reform ideas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Single Variable
Precalculus with Limits
Student Solutions Manual for Stewart's Single Variable Calculus: Early Transcendentals, 8th
Calculus: Early Transcendentals**

This text for the one- or two-semester applied or business calculus course uses intriguing real-world applications to engage students' interest and show them the practical side of calculus. The book's many applications are related to finance, business, and such general-interest topics as learning curves in airplane production, the age of the Dead Sea Scrolls, Apple and Oracle stock prices, the distance traveled by sports cars, lives saved by seat belts, and the cost of a congressional victory. The Seventh Edition maintains the hallmark features that have made APPLIED CALCULUS so popular: contemporary and interesting applications (including many that are new or updated); careful and effective use of technology, including graphing calculator and spreadsheet coverage; constant pedagogical reinforcement through section summaries, chapter summaries, annotated examples, and extra practice problems; Just-in-Time algebra review material; and a variety of exercises and assignment options including Applied Exercises, Conceptual Exercises, and Explorations and Excursions. This edition also includes new content and features to help students get up to speed-and succeed-in the course, including a Diagnostic Test, an Algebra Review appendix, marginal notes that make connections with previous or future discussions, new learning prompts to direct students to examples or to the Algebra Review, and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**CalculusApplied CalculusWiley
CALCULUS I WITH PRECALCULUS, developed for one-year courses, is ideal for instructors who wish to successfully bring students up to speed algebraically within precalculus and transition them into calculus. The Larson Calculus program has a long history of innovation in the calculus market. It has been widely praised by a generation of students and professors for its solid and effective pedagogy that addresses the needs of a broad range of teaching and learning styles and environments. Each title is just one component in a comprehensive calculus course program that carefully integrates and coordinates print, media, and technology products for successful teaching and learning. Two primary objectives guided the authors in writing this book: to develop precise, readable materials for students that clearly define and demonstrate concepts and rules of calculus and to design comprehensive teaching resources for instructors that employ proven pedagogical techniques and saves the instructor time. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

"The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

**Principles of Physics: A Calculus-Based Text, Volume 1
Algebra and Trigonometry
Principles of Physics: A Calculus-Based Text
Applied Calculus**

With Wiley's Enhanced E-Text, you get all the benefits of a downloadable, reflowable eBook with added resources to make your study time more effective, including: • Embedded & searchable equations, figures & tables • Math XML • Index with linked pages numbers for easy reference • Redrawn full color figures to allow for easier identification **Elementary Differential Equations, 11th Edition is written from the viewpoint of the applied mathematician, whose interest in differential equations may sometimes be quite theoretical, sometimes intensely practical, and often somewhere in between. The authors have sought to combine a sound and accurate (but not abstract) exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications. While the general structure of the book remains unchanged, some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications. In addition to expanded explanations, the 11th edition includes new problems, updated figures and examples to help motivate students. The program is primarily intended for undergraduate students of mathematics, science, or engineering, who typically take a course on differential equations during their first or second year of study. The main prerequisite for engaging with the program is a working knowledge of calculus, gained from a normal two?] or three?] semester course sequence or its equivalent. Some familiarity with matrices will also be helpful in the chapters on systems of differential equations.**

Soo Tan's APPLIED CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES, Ninth Edition balances applications, pedagogy, and technology to provide you with the context you need to stay motivated in the course and interested in the material. Accessible for majors and non-majors alike, the text uses an intuitive approach that introduces abstract concepts through examples drawn from common, real-life experiences to which you can relate. It also draws applications from numerous professional fields of interest. In addition, insightful Portfolios highlight the careers of real people and discuss how they incorporate math into their daily work activities. Numerous exercises ensure that you have a solid understanding of concepts before advancing to the next topic. Algebra review notes, keyed to the review chapter Preliminaries, appear where and when you need them. The text's exciting array of supplements equips you with extensive learning support to help you make the most of your study time. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. Bob Blitzer has inspired thousands of students with his engaging approach to mathematics, making this beloved series the #1 in the market. Blitzer draws on his unique background in mathematics and behavioral science to present the full scope of mathematics with vivid applications in real-life situations. Students stay engaged because Blitzer often uses pop-culture and up-to-date references to connect math to students' lives, showing that their world is profoundly mathematical.

James Stewart's Calculus series is the top-seller in the world because of its problem-solving focus, mathematical precision and accuracy, and outstanding examples and problem sets. Selected and mentored by Stewart, Daniel Clegg and Saleem Watson continue his legacy of providing students with the strongest foundation for a STEM future. Their careful refinements retain Stewart's clarity of exposition and make the 9th edition even more usable as a teaching tool for instructors and as a learning tool for students. Showing that Calculus is both practical and beautiful, the Stewart approach enhances understanding and builds confidence for millions of students worldwide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mathematics for Calculus

**Introductory Statistics
HIGHER ALGEBRA**

One of the most successful calculus books of its generation, Jon Rogawski's Calculus balances formal precision with conceptual focus. Full of useful features, it helps students build computational skills while reinforcing the relevance of calculus to their studies. When writing the book, the author team strove to ensure it's clearly written, can be read by a calculus student and would motivate them to engage in the material and learn more. The textbook uses exposition, graphics, and layout would to enhance all facets of a student's calculus experience. Bob Franzosa joins the author team for this new

4th edition, bringing deep experience and knowledge of teaching calculus at undergraduate level. Extra applications have been added in climate, life and earth sciences to better bring the maths to life.

Written by David Cohen and co-authors Theodore B. Lee and David Sklar, PRECALCULUS, Seventh Edition, focuses on the use of a graphical perspective to provide a visual understanding of college algebra and trigonometry. Cohen's texts are known for their clear writing style and outstanding, graded exercises and applications, including many examples and exercises involving applications and real-life data. Graphs, visualization of data, and functions are introduced and emphasized early on to aid student understanding. Although the text provides thorough treatment of the graphing calculator, the material is arranged to allow instructors to teach the course with as much or as little graphing utility work as they wish. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This best selling author team explains concepts simply and clearly, without glossing over difficult points. Problem solving and mathematical modeling are introduced early and reinforced throughout, so that when students finish the course, they have a solid foundation in the principles of mathematical thinking. This comprehensive, evenly paced book provides complete coverage of the function concept and integrates substantial graphing calculator materials that help students develop insight into mathematical ideas. The authors' attention to detail and clarity, as in James Stewart's market-leading Calculus text, is what makes this text the market leader. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Principles of Physics: A Calculus-Based Text, Volume 2

Parentology

Calculus

Everything You Wanted to Know about the Science of Raising Children but Were Too Exhausted to Ask

Taalman's Calculus I with Integrated Precalculus helps students with weak mathematical backgrounds be successful in the calculus sequence, without retaking a precalculus course. Taalman's innovative text is the only book to interweave calculus with precalculus and algebra in a manner suitable for math and science majors— not a rehashing or just-in-time review of precalculus and algebra, but rather a new approach that uses a calculus-level toolbox to examine the structure and behavior of algebraic and transcendental functions. This book was written specifically to tie in with the material covered in Taalman/Kohn Calculus. Students who begin their calculus sequence with Calculus I with Integrated Precalculus can easily continue on to Calculus II using the Taalman/Kohn text.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

James Stewart's Calculus series is the top-seller in the world because of its problem-solving focus, mathematical precision and accuracy, and outstanding examples and problem sets. Selected and mentored by Stewart, Daniel Clegg and Saleem Watson continue his legacy of providing students with the strongest foundation for a STEM future. Their careful refinements retain Stewart's clarity of exposition and make the 9th Edition even more useful as a teaching tool for instructors and as a learning tool for students. Showing that Calculus is both practical and beautiful, the Stewart approach enhances understanding and builds confidence for millions of students worldwide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Stewart's CALCULUS: CONCEPTS AND CONTEXTS, 3rd Edition focuses on major concepts and supports them with precise definitions, patient explanations, and carefully graded problems. Margin notes clarify and expand on topics presented in the body of the text. The Tools for Enriching Calculus CD-ROM contains visualizations, interactive modules, and homework hints that enrich your learning experience. iLrn Homework helps you identify where you need additional help, and Personal Tutor with SMARTHINKING gives you live, one-on-one online help from an experienced calculus tutor. In addition, the Interactive Video Skillbuilder CD-ROM takes you step-by-step through examples from the book. The new Enhanced Review Edition includes new practice tests with solutions, to give you additional help with mastering the concepts needed to succeed in the course.

Early Transcendentals

Vector Calculus

Physics for Scientists and Engineers, Volume 2

Calculus I with Precalculus

This manual includes worked-out solutions to every odd-numbered exercise in Multivariable Calculus (Chapters 10-15 of Calculus and Chapters 9-14 of Calculus: Early Transcendentals).

The Classic Texts Series is the only of its kind selection of classic pieces of work that started off as bestseller and continues to be the bestseller even today. These classic texts have been designed so as to work as elementary textbooks which play a crucial role in building the concepts from scratch as in-depth knowledge of concepts is necessary for students preparing for various entrance exams. The present book on Higher Algebra presents all the elements of Higher Algebra in a single book meant to work as textbook for the students beginning their preparation of the varied aspects covered under Higher Algebra. The present book has been divided into 35 chapters namely Ratio, Proportion, Variation, Arithmetical Progression, Geometrical Progression, Harmonical Progression Theorems Connected with The Progression, Scales of Notation, Surds & Imaginary Quantities, The Theory of Quadratic Equations, Miscellaneous Equations, Permutations & Combinations, Mathematical Induction, Binomial Theorem Positive Integral Index, Binomial Theorem, Any Index, Multinomial Theorem, Logarithms, Exponential & Logarithmic Series, Interest & Annuities, Inequalities, Limiting Values & Vanishing Fractions, Convergency&Divergency of Series, Undetermined Coefficients, Partial Fractions, Recurring Series, Continued Fractions, Recurring Series, Continued Fractions, Indeterminate Equations of the First Degree, Recurring Continued Fractions, Indeterminate Equations of the Second Degree, Summation of Series, Theory of Numbers, The General Theory of Continued Fractions, Probability, Determinants, Miscellaneous Theorems & Examples and Theory of Equations, each subdivided into number of topics. The first few chapters in the book have been devoted to a fuller discussion of Ratio, Proportions, Variation and the Progressions. Both the theoretical text as well as examples have been treated minutely which will help in better understanding of the concepts covered in the book. Theoretical explanation of the concepts in points has been provided at the beginning of each chapter. At the end of each chapter, unsolved practice exercises have been provided to help aspirants revise the concepts discussed in the chapter. At the end of chapterwise study, miscellaneous examples have also been given along with answers and solutions to the unsolved examples covered in each chapter. All the relevant theorems covered under the syllabi of Higher Algebra have also been covered in the detail in this book. As the book covers the whole syllabi of Higher Algebra in detail along with ample number of solved examples, it for sure will help the students perfect the varied concepts covered under the Higher Algebra section.

An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions" (Amy Chua, author of Battle Hymn of the Tiger Mother). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

PRINCIPLES OF PHYSICS is the only text specifically written for institutions that offer a calculus-based physics course for their life science majors. Authors Raymond A. Serway and John W. Jewett have revised the Fifth Edition of PRINCIPLES OF PHYSICS to include a new worked example format, new biomedical applications, two new Contexts features, a revised problem set based on an analysis of problem usage data from WebAssign, and a thorough revision of every piece of line art in the text. The Enhanced WebAssign course for PRINCIPLES OF PHYSICS is very robust, with all end-of-chapter problems, an interactive YouBook, and book-specific tutorials. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Concepts and Contexts

Brief Applied Calculus

Finite Math and Applied Calculus

Calculus: Early Transcendental Functions

Stewart's clear, direct writing style in SINGLE VARIABLE CALCULUS guides you through key ideas, theorems, and problem-solving steps. Every concept is supported by thoughtfully worked examples and carefully chosen exercises. Many of the detailed examples display solutions that are presented graphically, analytically, or numerically to provide further insight into mathematical concepts. Margin notes expand on and clarify the steps of the solution.

Precalculus is adaptable and designed to fit the needs of a variety of precalculus courses. It is a comprehensive text that covers more ground than a typical one- or two-semester college-level precalculus course. The content is organized by clearly-defined learning objectives, and includes worked examples that demonstrate problem-solving approaches in an accessible way. Coverage and Scope Precalculus contains twelve chapters, roughly divided into three groups. Chapters 1-4 discuss various types of functions, providing a foundation for the remainder of the course. Chapter 1: Functions Chapter 2: Linear Functions Chapter 3: Polynomial and Rational Functions Chapter 4: Exponential and Logarithmic Functions Chapters 5-8 focus on Trigonometry. In Precalculus, we approach trigonometry by first introducing angles and the unit circle, as opposed to the right triangle approach more commonly used in College Algebra and Trigonometry courses. Chapter 5: Trigonometric Functions Chapter 6: Periodic Functions Chapter 7: Trigonometric Identities and Equations Chapter 8: Further Applications of Trigonometry Chapters 9-12 present some advanced Precalculus topics that build on topics introduced in chapters 1-8. Most Precalculus syllabi include some of the topics in these chapters, but few include all.

Instructors can select material as needed from this group of chapters, since they are not cumulative. Chapter 9: Systems of Equations and Inequalities Chapter 10: Analytic Geometry Chapter

11: Sequences, Probability and Counting Theory Chapter 12: Introduction to Calculus

Applied Calculus for the Managerial, Life, and Social Sciences

Precalculus