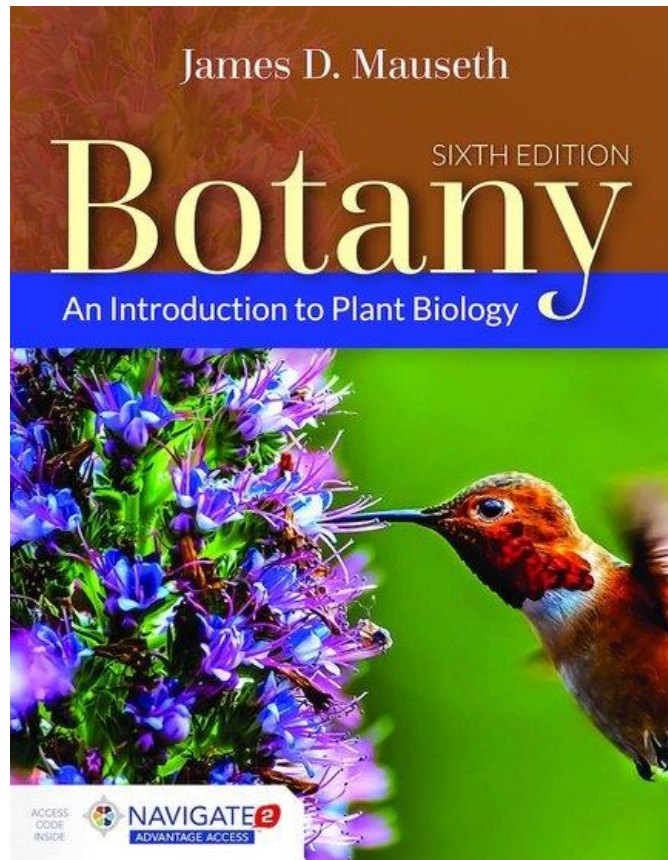




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Botany: An Introduction to Plant Biology, Sixth Edition
Includes Navigate 2 Advantage Access



James D. Mauseth, PhD, University of Texas at Austin
ISBN-13: 978-1-284-07753-7
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SEE WHAT'S NEW TO THE SIXTH EDITION!

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This Transition Guide outlines many of the changes and new content in the *Sixth Edition*. Use this guide for an easy transition to the new edition.

Botany: An Introduction to Plant Biology continues to set the standard for the fundamentals of plant science. No botany text better connects structure to function and does so with higher quality art and imagery. Combining strong scientific grounding with an approachable writing style, Botany teaches and engages. The essentials to a foundational understanding of plant science are all there, including structure, genetics and evolution, physiology and development, and ecology. Now in a modernized sixth edition, the text continues to lead with the latest material on molecular biology, plant biotechnology, and the most recent coverage of taxonomy and phylogeny of plants to keep students on the forefront of cutting-edge botanical research. ***Botany: An Introduction to Plant Biology, Sixth Edition*** is the clear choice for students digging into this exciting science.

KEY UPDATES:

- All chapters have been carefully and thoroughly revised and updated with the latest scientific and education research.
- A completely redesigned interior layout will draw in the reader and help to engage students in the high-quality pedagogical features.
- A NEW introductory Chapter on an Overview of Plant Life that provides a broad overview to fundamental principles.
- The NEW Chapter on Ethnobotany further explores the interactions between plants and people, already a main focus of the text.
- The NEW Community Ecology chapter digs deeper into the relationships between plants and their surroundings.
- The fully revised art package, including over 500 new or revised images, makes difficult concepts more approachable and figures more engaging.
- Information on pronouncing many challenging terms has been added to the text along with a comprehensive Pronunciation Guide.
- NEW Learning Objectives have been added to every chapter to focus students' attention and guide their study
- The NEW "Did You Know?" feature opens every chapter with interesting facts to engage the reader and get students excited about the material.
- Every chapter closes with the NEW "At the Next Level" feature that provides opportunities for more advanced students to further explore the material.
- The previous edition's chapters on chemistry, fungi, and prokaryotes have been removed at the suggestion of many reviewers.
 - The Chemistry material has been condensed and re-presented in the NEW Appendix on Fundamental Aspects of Chemistry
 - The Fungi and Prokaryote material is now available as part of the Navigate 2 online learning solution (more information below)

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CHAPTER OUTLINE

Table of Contents Comparison to transition from the *Fifth* to the *Sixth Edition*

Fifth Edition	Sixth Edition
Chapter 1: Introduction to Plants and Botany	Chapter 1: Introduction to Plants and Botany
Chapter 2: Introduction to the Principles of Chemistry	NEW! Chapter 2: Overview of Plant Life
Part 1: Plant Structure	Part 1: Plant Structure
Chapter 3: Cell Structure	Chapter 3: Cell Structure
Chapter 4: Growth and Division of the Cell	Chapter 4: Growth and Division of the Cell
Chapter 5: Tissues and the Primary Growth of Stems	Chapter 5: Tissues and the Primary Growth of Stems
Chapter 6: Leaves	Chapter 6: Leaves
Chapter 7: Roots	Chapter 7: Roots
Chapter 8: Structure of Woody Plants	Chapter 8: Structure of Woody Plants
Chapter 9: Flowers and Reproduction	Chapter 9: Flowers and Reproduction
Part 2: Plant Physiology and Development	Part 2: Plant Physiology and Development
Chapter 10: Energy Metabolism: Photosynthesis	Chapter 10: Energy Metabolism: Photosynthesis
Chapter 11: Energy Metabolism: Respiration	Chapter 11: Energy Metabolism: Respiration
Chapter 12: Transport Processes	Chapter 12: Transport Processes
Chapter 13: Soils and Mineral Nutrition	Chapter 13: Soils and Mineral Nutrition
Chapter 14: Development and Morphogenesis	Chapter 14: Development and Morphogenesis
Chapter 15: Genes and the Genetic Basis of Metabolism and Development	Chapter 15: Genes and the Genetic Basis of Metabolism and Development
Part 3: Genetics and Evolution	Part 3: Genetics and Evolution
Chapter 16: Genetics	Chapter 16: Genetics
Chapter 17: Population Genetics and Evolution	Chapter 17: Population Genetics and Evolution
Chapter 18: Classification and Systematics	Chapter 18: Classification and Systematics
Chapter 19: Algae and the Origin of Eukaryotic Cells	Chapter 19: Algae and the Origin of Eukaryotic Cells
Chapter 20: Nonvascular Plants: Mosses, Liverworts, and Hornworts	Chapter 20: Nonvascular Plants: Mosses, Liverworts, and Hornworts
Chapter 21: Vascular Plants Without Seeds	Chapter 21: Vascular Plants Without Seeds
Chapter 22: Seed Plants I: Gymnosperms	Chapter 22: Seed Plants I: Gymnosperms
Chapter 23: Seed Plants II: Angiosperms	Chapter 23: Seed Plants II: Angiosperms
Chapter 24: Fungi	NEW! Chapter 24: Ethnobotany
Chapter 25: Prokaryotes: Domains Bacteria and Archaea	Part 4: Ecology
Part 4: Ecology	Chapter 25: Populations and Ecosystems
Chapter 26: Populations and Ecosystems	NEW! Chapter 26: Community Ecology
Chapter 27: Biomes	Chapter 27: Biomes

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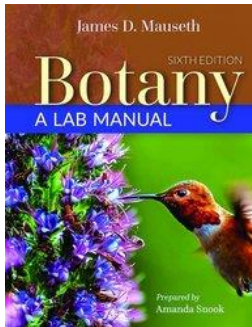
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Botany: A Lab Manual, Sixth Edition

Prepared by **Amanda Snook**, Vernon College

ISBN-13: 978-1-284-11184-2

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Botany: A Lab Manual, Sixth Edition is available as a bundle option with the primary text. The Lab Manual has been fully updated to match the *Sixth Edition* of the primary text and is designed to provide students with a hands-on learning experience that will enhance their understanding of plant biology. Students and instructors will benefit from the new, full-color layout, photographs, and illustrations. The more convenient spiral binding allows the manual to lay flat on lab tables while students work and they can easily tear out pages to submit for a grade, making this the ideal resource to complete any Botany or Plant Biology course.

Lab Manual Table of Contents

Chapter 1	Introduction to Botany and Microscopy
Chapter 2	Introduction to Plant Cells
Chapter 3	Cell Division
Chapter 4	Plant Tissues and Herbaceous Stems
Chapter 5	Leaves
Chapter 6	Roots
Chapter 7	Secondary Meristems and Woody Growth
Chapter 8	Photosynthesis
Chapter 9	Cellular Respiration and Fermentation
Chapter 10	Water Pollution
Chapter 11	Case Studies in Mineral Nutrition
Chapter 12	Tissue Culture
Chapter 13	Genetics, Inheritance, and Natural Selection
Chapter 14	Classification and Systematics
Chapter 15	Algae
Chapter 16	Non-Vascular Plants
Chapter 17	Seedless Vascular Plants
Chapter 18	Gymnosperms
Chapter 19	Angiosperms I: Flowers
Chapter 20	Angiosperms II: Fruits
Chapter 21	Community Ecology
Chapter 22	Ethnobotany

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