

Chapter 1 The Main Themes of Microbiology

Chapter 2 The Chemistry of Biology

Chapter 3 Tools of the Laboratory: Methods for the Culturing of Microscopic Analysis of Microorganisms

Chapter 4 Bacteria and Archaea

Chapter 5 Eukaryotic Cells and Microorganisms

Chapter 6 Viruses and Prions

Chapter 7 Microbial Nutrition and Growth

Chapter 8 Microbial Metabolism: The Chemical Crossroads of Life

Chapter 9 Microbial Genetics

Chapter 10 Genetic Analysis and Genetic Engineering

Chapter 11 Physical and Chemical Control of Microbes

Chapter 12 Antimicrobial Treatment

Chapter 13 Microbe-Human Interactions: Health and Disease

Chapter 14 Host Defenses I: Overview and Nonspecific Defenses

Chapter 15 Host Defenses II: Specific Immunity and Immunization

Chapter 16 Disorders in Immunity

Chapter 17 Diagnosing Infections

Chapter 18 Infectious Diseases Affecting the Skin and Eyes

Chapter 19 Infectious Diseases Affecting the Nervous System

Chapter 20 Infectious Diseases Affecting the Cardiovascular and Lymphatic Systems

Chapter 21 Infectious Diseases Affecting the Respiratory System

Chapter 22 Infectious Diseases Affecting the Gastrointestinal Tract

Chapter 23 Infectious Diseases Affecting the Genitourinary System

Chapter 24 Microbes and the Environment

Chapter 25 Applied Microbiology and Food and Water Safety