2: How We See the Invisible World

3: The Cell

- **Bacteria**
  - Spirochetes
  - Gram-negative bacteria
  - Free-living bacteria

- **Archaea**
  - Methanogens
  - Methanococcales
  - Archaeabacteria

**Phylogenetic Tree**

4: Prokaryotic Diversity

5: The Eukaryotes of Microbiology
6: Acellular Pathogens

7: Microbial Metabolism

8: Microbial Growth

9: Mechanisms of Microbial Genetics
10: Modern Applications of Microbial Genetics

11: Innate Nonspecific Host Defenses

12: Specific Adaptive Host Defenses

13: Diseases of the Immune System
14: Microbial Mechanisms of Pathogenicity

- 15: Disease and Epidemiology

- 16: Control of Microbial Growth

- 17: Antimicrobial Drugs
18: Bacterial Pathogens and Diseases

19: Eukaryotic Pathogens and Diseases

20: Acellular Pathogens and Diseases
21: Appendix A - Biochemistry Review

22: Appendix B - Molecular Genetics Review

23: Appendix C - Human Anatomy