

## *Brief Contents*

|                   |                                                      |     |
|-------------------|------------------------------------------------------|-----|
| <i>Chapter 1</i>  | The Bases of Ecology<br>and the Physical Environment | 7   |
| <i>Chapter 2</i>  | The Biological Environment<br>and Energy Flow        | 41  |
| <i>Chapter 3</i>  | Biogeochemical Cycles                                | 62  |
| <i>Chapter 4</i>  | The Origin of Life<br>and the Geologic Past          | 79  |
| <i>Chapter 5</i>  | Evolution                                            | 94  |
| <i>Chapter 6</i>  | Speciation                                           | 122 |
| <i>Chapter 7</i>  | Dispersal                                            | 140 |
| <i>Chapter 8</i>  | The Development of Communities                       | 153 |
| <i>Chapter 9</i>  | Population Dynamics                                  | 199 |
| <i>Chapter 10</i> | The Interaction of Organisms                         | 218 |
| <i>Chapter 11</i> | Territoriality, Habitat, and Niches                  | 237 |

|                   |                                     |     |
|-------------------|-------------------------------------|-----|
| <i>Chapter 12</i> | Kingdom Monera                      | 261 |
| <i>Chapter 13</i> | Kingdom Protista                    | 272 |
| <i>Chapter 14</i> | Kingdom Fungi                       | 281 |
| <i>Chapter 15</i> | Kingdom Plantae                     | 293 |
| <i>Chapter 16</i> | Kingdom Animalia: The Invertebrates | 327 |
| <i>Chapter 17</i> | The Vertebrates                     | 361 |

### Part One: Ecology

2

### Part Two: Natural History

256