



# NORTHGATE ACADEMY

## Biology: God's Living Creation - Course Syllabus

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### Description:

Truly non-evolutionary in philosophy, spirit, and sequence of study, this course begins with the familiar, tangible things of nature and concludes with God's amazing design at the cellular and chemical level. Abstract concepts are tied to concrete examples through clear, easy-to-read explanations, laying a firm foundation for future studies in chemistry, physics, and other fields. Along with academic knowledge, students will gain a greater appreciation for God's physical creation and an increased interest in science.

**Textbook:** Biology: God's Living Creation (A Beka – Code 202398)

### Course objectives:

- Understand the basic topics of Biology including: Botany, Zoology, Microbiology, Human Anatomy and Physiology, Cytology, Genetics, and Ecology.
- Show understanding of material through written assignments, quizzes, and final exam.

### Contents:

#### Semester A

Chapter 1 – The Flowering Seed Plants  
Chapter 2 – Structure and Function of Leaves  
Chapter 3 – Flowers, Fruits and Seeds  
Chapter 4 – Stems & Roots  
Chapter 5 – Variety in the World of Plants  
Chapter 6 – Fearfully and Wonderfully Made

Chapter 7 – Bones & Muscles  
Chapter 8 – The Nervous System  
Chapter 9 – Nutrition & Digestion  
Chapter 10 – Circulation & Respiration  
Chapter 11 – Various Systems  
Chapter 12 – Disease & the Immune System

#### Semester B

Chapter 13 – Natural History  
Chapter 14 – Evolution  
Chapter 15 – Introduction to Ecology  
Chapter 16 – Mammals  
Chapter 17 – Birds  
Chapter 18 – Reptiles and Amphibians

Chapter 19 – Fish  
Chapter 20 - Arthropods  
Chapter 21 – Variety in Invertebrates  
Chapter 22 – Cytology  
Chapter 23 – Heredity  
Chapter 24 – DNA

### Grading Scale

A = 90-100%  
B = 80-89%  
C = 70-79%  
D = 60-69%  
F = under 59%

### Grade Weighting

Quizzes..... 35%  
Written Assignments... 35%  
Final Exam..... 30%  
**100%**