

Course Description

Grades 11-12 Anatomy and Physiology

Philosophy Statement: Science instruction equips students to know and experience God's basic eternal truths revealed through His creation. Science deepens the students' faith, understanding, and awareness of the eternal power and divine nature of God. (Romans 1:20)

Course Objective: Essential principles of human anatomy and physiology are presented, including basic chemistry, cell and tissue studies, and an overview of all the body systems. Includes dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it.

Textbooks: Fundamentals of Anatomy and Physiology
Pearson
2009

Materials:

- Chemicals
- Laboratory supplies
- Laboratory equipment

Time Allotment: 45 minutes per day, 5 days per week

Course Content:

- Human Body
- Chemistry Of Life
- Cell Structure
- Cellular Metabolism and Reproduction: Mitosis and Meiosis
- Tissues
- Integumentary System
- Skeletal System
- Articular System
- Muscular System
- Nervous System
- Endocrine System
- Blood
- Cardiovascular System
- Lymphatic System
- Nutrition and the Digestive System
- Respiratory System
- Urinary System
- Reproductive System

Areas to be evaluated:

- Satisfactory and timely completion of assigned work
- Written assignments
- Reading and summaries of science articles
- Labs/Dissections
- Quizzes
- Exams
- Homework assignments
- Class participation

Additional activities:

- Guest speakers
- Field trip to Des Moines University's Gross Anatomy Lab