2015 Science Standards—Anatomy & Physiology

**COURSE FOCUS (Apply the following for each content standard.)**

**A&P.1 Identify SDA Christian principles and values in correlation with science.**

A&P.1.1 Recognize God’s power as Designer, Creator, Sustainer, and Redeemer in the universe.

A&P.1.2 Acknowledge God as the Author of all scientific principles and laws regardless of man’s interpretation.

A&P.1.3 Develop stewardship and service attitudes toward health, life, and earth’s environment.

A&P.1.4 Apply Biblical principles of Christian morality, integrity, and ethical behavior to all aspects of life.

A&P.1.5 Equip students with Christian perspectives on scientific issues.

**COURSE ABILITIES (Apply the following to each content standard.)**

**A&P.2 Develop abilities in science.**

A&P.2.1 Develop critical and creative thinking skills (analysis, evaluation, divergent questioning, modeling).

A&P.2.2 Understand and utilize the scientific method of problem solving.

A&P.2.3 Utilize the principles and methodologies of cooperative learning.

**A&P.3 Be able to apply science knowledge and skills to a variety of purposes.**

A&P.3.1 Recognize scientific principles and laws as tools to solve problems in everyday life.

A&P.3.2 Apply the scientific method in analysis of controversial topics, e.g., cloning, global warming, stem cell research.

A&P.3.3 Read, write, and interpret scientific documents (lab write-ups, journals, scientific publications).

A&P.3.4 Conduct research in the content area.

A&P.3.5 Engage in various uses of technology.

**COURSE CONTENT: Anatomical Orientation, Cells and Tissues, Systems (Understand, explore, analyze, apply.)**

**A&P.4 Be able to understand principles of anatomy.**

A&P.4.1 Recognize God as the designer and creator of the human body.

A&P.4.2 Define and properly use anatomical orientation terminology.

A&P.4.3 Demonstrate an understanding of the structure of cell types and tissues.

A&P.4.4 Identify the components within each system (skeletal, digestive, circulatory, etc.).

**A&P.5 Be able to safely explore human anatomy and physiology.**

A&P.5.1 Examine anatomy of specimens.

A&P.5.2 Explore human cells and tissues with microscopes.

A&P.5.3 Investigate the function of components within each system.

**A&P.6 Be able to analyze human physiology.**

A&P.6.1 Interpret the relationship between the structure and the function of cell types and tissues..

A&P.6.2 Evaluate the relationship between the structure and the function of organs.

A&P.6.3 Correlate the structure of each organ system with its function.

A&P.6.4 Analyze the interdependence of organ systems in the body.

**A&P.7 Be able to apply principles of anatomy and physiology to health and life.**

A&P.7.1 Strengthen belief in God as Designer and Creator from studying anatomy and physiology.

A&P.7.2 Utilize the concepts of anatomy and physiology to improve lifestyle choices.