

SCIENCE CURRICULUM SUMMARY

The purpose of the Science Curriculum Summary is to present an overview of the Honors Biology II: Human Anatomy & Physiology curriculum. Parents are the intended audience of the Science Curriculum Summary.

Unifying Themes

- Problem solving skills
- Appropriate use of models
- Patterns of biological classification
- Biological scale
- Describe patterns of change

Inquiry and Design

- Quantitative and qualitative skills based on observations
- Scientific process skills
- Theories and laws
- Inferences and predictions using scientific information
- Tools and technology of Biology
- Scientific inquiry to solve problems

Biochemistry

- Chemistry of water
- Properties of water
- Acid/Base relationships
- Organic chemistry of macromolecules
- Functional groups

Anatomy & Physiology

- Levels of Organization
- Cellular structure and function
- Tissue structure and function
- Organs
- Organ systems

Embryology

- Cell Division, Cell Cycle, Mitosis and Meiosis
- Gametes
- Fertilization
- Cleavage
- Gastrulation
- Organogenesis
- Induction
- Genetics