

**INTERDISCIPLINARY STUDIES CURRICULUM SUMMARY**

The purpose of the Interdisciplinary Studies Curriculum is to present an overview of the Biotechnology curriculum. Parents are the intended audience of the Interdisciplinary Studies Curriculum Summary.

<b>Animal Life</b>
Handling, holding & transportation of animals Disease signs: diagnosis, treatment & prevention Nutritional analysis Urine testing lab Five senses lab

<b>Aquaculture</b>
Water quality Disease signs: diagnosis, treatment & prevention Handling, holding & transportation of animals Nutritional analysis Marketing & design Product development

<b>Hydroponics</b>
Plant growth without soil Conditions for growth Primary & secondary nutrients Water/ nutrient supply systems Photoperiods Marketing & design Maintenance

<b>Natural Resources</b>
Conservation Desalination testing Wind energy

<b>Plant Science</b>
Plants: importance & uses Roots, stems, flowers & leaves Flowers & Fruit Plant cells & processes Soil PH Food storage Reproduction & germination Stages of plant growth

<b>Waste Management</b>
Commercial & residential Composting Remediation Design & maintenance Testing

**Genetics**

DNA fingerprinting  
DNA spooling & manipulation: grafting, hybridization, pollenization  
Social implications  
Genetic engineering basics

**Horticulture**

Greenhouse management  
Development and maintenance of nursery crop  
Landscape design: ground coverage selection and maintenance  
Home orchard design and maintenance

**Cardiology**

Disease signs: diagnosis, treatment, & prevention  
Heart dissection  
Blood flow  
EKG testing

**Forensics**

Methods of collecting physical evidence  
Handling and utilizing a microscope  
Identify and list the different types of evidence  
Examine a death certificate  
Blood typing  
Electrophoresis experiment