Physical Science of Agriculture - 0134

The course covers the global marketplace, development of a Program of Activities, and leadership development. Animal science emphasis is on the selection, reproduction and genetics of breeds of beef, sheep, swine, dairy cattle, horses, poultry, and specialty animals. Plant science emphasis is on the structure and function of plant parts; identification of common pasture and range plants; plant growth and development; sexual and asexual reproduction of plants. Soil science topics include nutrients, fertilizers, organic matter, conservation practices and sampling techniques.

Determining Trends in Agriculture

Determining FFA Degrees, Awards and CDE's

Understanding FFA Officer Duties and Responsibilities

Planning and Organizing an FFA Meeting

Developing an Awareness for Your Community

Plans for Expanding SAE Programs

Intro to Communication

Developing Personal Skills - Self Understanding & Assessment

Developing Human Relations Skills

Understanding Effective Communication Techniques

Identifying Effective Speaking Techniques

Developing Listening Techniques

Organizing and Presenting a Persuasive Message

Developing Goals

Employability Skills (Workforce Skills)

Obtaining Education for a Job

Identify Occupational Competencies

Finding a Job

Applying for a Job

Writing a Resume and Letter of Application

Succeeding in a Job Interview

Understanding Conflicts and Their Resolution

Agricultural Literacy

Understanding the Importance of Agriculture in Society

Determining Sources of Environmental Pollution

Determining How to Prevent Agricultural Pollution

Understanding World Agriculture Production

Agriscience

Conducting Agricultural Research

Determining the Nature of Biotechnology

Determining the History of Agriculture

Use of Technology in World Food and Fiber Production

Determining the Role of Consumers in World Agriculture

Analyzing Present and Future Trends in Animal Science

Discovering Ways Animals Help People

Identifying Career Opportunities in the Animal Science Industry

Meeting Nutritional Needs of Animals

Understanding Animal Digestion

Understanding Nutrients and their Importance

Balancing Rations

Anatomy and Physiology of Animal Reproduction Systems

Understanding Natural Animal Reproduction

Understanding Animal Reproduction Technology

Understanding Genetics

Training and Conditioning

Classifying and Naming Plants

Examining Flowers and Fruits

Identifying Plant Types and Uses

Using Crossbreeding and Hybrids

Understanding Plant Life Cycles

Determining Nutrient Functions and Utilization

Propagating Plants Sexually

Propagating Plants Asexually

Propagating Plants by Tissue Culture

Understanding Soil Degradation

Understanding Soil Erosion and Management Practices

Understanding Soil Erosion and Management Practices

Calculating Soil Loss

Employing Conservation Tillage Practices

Determining Fertilizer Formulations

Applying Fertilizers to Field Crops

Identifying Nutrient Deficiencies in Crops

Using Irrigation