

Course Title: Exploratory Agriculture

Board Approval Date: November 17, 2020

Credit / Hours: .5 Credits / 63 Hours

Course Description:

This course explores all aspects of Agricultural Education and FFA. The course is intended to provide students a better understanding of the three primary areas within the Agricultural program at Dover Area High School: Ag Mechanics; Horticulture; and Ag-General. This course contributes to the Ag. General (CIP 01.000) pathway.

Learning Activities / Modes of Assessment:

Small Group
Whole Group
Independent
One-on-One
Classwork Activities
Technology

Projects
Presentations
Research
Test
Quizzes
Writing

Instructional Resources:

Lab Materials/Kits
Dissection Tools (physical and virtual)
Online Resources

Curriculum: General Agriculture
 Course: Exploratory Agriculture

Know/Task:	Understand:	Do:
503-Create short & long term SMART goals 504-Serve in a community or civic organization 505-Perform leadership tasks associated with citizenship 507-Research career opportunities in agriculture 509-Apply concepts of conducting meetings <hr/>	Students will know: the history of FFA and agriculture education, what SMART goals are and how to develop them, the three circle model of agriculture education, potential career opportunities in agriculture, and the importance of a SAE <hr/>	Students will be able to: develop SMART goals, create a SAE, describe important dates in FFA and agricultural education's history <hr/>
201-Classify plants using dichotomous keys 202-Identify the components & structure of plants 204-Identify products & uses of plant species in the industry 212-Investigate emerging technologies within plant science <hr/>	Students will know: how plants are named and classified, identify and describe the main structures and functions of plants, and discuss the uses of plants in the industry <hr/>	Students will be able to: germinate plants, identify structure and function, understand the importance of plants in various industries, and discuss new technologies in plant science <hr/>
103-Identify products & uses of major animal species 104-Identify the external anatomy of animals 	Students will know: the anatomical structures of animals (internal and external), discuss modern 	Students will be able to: identify anatomical structures of various animals, discuss the

<p>113-Investigate emerging technologies within animal science</p> <p>110-Investigate environmental, food, medicinal, public safety, & biosecurity issues related to animal health</p> <hr/>	<p>technologies that aid in animal production, and discuss the majouses of animals in our economy</p> <hr/>	<p>difference between a monogastric and a ruminant, identify products that animals are used in, and analyze our animal industry's importance in our overall GDP</p> <hr/>
<p>302-Identify & describe physical, chemical, & biological soil characteristics</p> <p>303-Perform proper soil sampling techniques</p> <p>307-Compare & contrast soil conservation practices & soil management techniques</p> <hr/>	<p>Students will know: how topsoil is formed and its components, importance of soil for animals and plants, understand the importance of performing soil tests, and discuss conservation methods and practices</p> <hr/>	<p>Students will be able to: describe how soil is formed and its components, perform soil tests, and develop a restoration plan</p> <hr/>
<p>Ag Mechanics 1001-Define the dangers in agricultural mechanics shop & workplace</p> <p>Ag Mechanics 1002-List safety procedures that promote avoidance of shop hazards & accident reduction</p>	<p>Students will know: how to properly utilize most hand and power tools in the shop, how to utilize measurement tools (standard and metric), and how to design a project</p>	<p>Students will be able to: perform first aid, handle and utilize tools safely, and create, design, and build a project</p>
<p>Ag Mechanics 1206- Operate woodworking equipment/machinery</p>		

Ag Mechanics 1209-
Fabricate a product by
hand

Ag Mechanics 1101-
Identify, select, adjust,
maintain, & safely use
common hand tools &
power tools

Ag Mechanics 1105-
Demonstrate the proper
installation & application of
common hardware items

Ag Mechanics 1106-
Demonstrate accurate use
of measurement devices &
techniques for calculating
measurement including the
metric system

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Pacing Guide

Course: Exploratory Agriculture

Course Unit (Topic) Periods)	Length of Instruction (Class
Leadership and SAE's	7 Days
Plant Science	7 Days
Animal Science	10 Days
Soil Science	7 Days
Ag. Mechanics	12 Days
Final Review & Assessment	2 Days
Total:	45 Days