



Course Syllabus

DRONES: UNMANNED AERIAL SYSTEMS

Code:	49016V	NCAA Approval:	No
Level:	High School	QM Certified:	No
Duration/Credit:	1.0 Credit/Year	Textbook:	None
Prerequisites:	None	Materials:	+ Resources and Materials ...
Standards:	Unmanned Aerial Systems I Standards	Technology:	VA Technology Requirements
Pacing Guide	49016V Drones: Unmanned A... 49016V Drones: Unmanned A...	Alignment Matrix:	Alignment Matrix

Course Introduction

Watch the [course introduction video](#) or read the [video transcript](#) for a brief introduction to the course.

Course Description

This course provides students with the opportunity to acquire the knowledge and skills needed for jobs in the unmanned aerial systems industry. Students will learn about piloting remotely controlled aircraft, FAA regulations, and apply the technical skills sought by employers in the workplace. The Part 107 Remote Pilot Knowledge Test will be offered after the course.

Course Level Objectives

The objectives for this course include the following:

- The basics of UAS
- Why safety considerations and regulations are necessary
- Principles of flight
- Types of control
- Propulsion and power
- Compare and contrast the different materials used in airframe construction
- Describe and demonstrate soldering methods
- Identify the core components used in UAS
- Select appropriate UAS components
- Perform UAS Assembly
- Execute pre- and post-flight operations
- Execute in-flight operations

Course Participation Information

There are other pieces of important information about your participation in a Virtual Arkansas course. This information can be found in your course in the Virtual Arkansas Program Syllabus.