AVT 1101: Introduction to Unmanned Aerial Systems
Credit Type – **Proficiency**

Course Description and Learning Outcomes:
https://www.sinclair.edu/course/params/subject/AVT/courseNo/1101/?_ga=2.163132412.1975273536.1614614237-2081113953.1605194915
Faculty Pathway Specialist(s) (Please include name, email**):**
Gregory Garman, gregory.garman@sinclair.edu
Resources Needed to Offer Course (software, equipment, books [include ISBN and edition], etc. – please include any associated costs)**:**
Introduction to Unmanned Aircraft Systems, Third Edition by Barnhart, R. Kurt, Marshall, Douglas M., Shappee, Eric; Edition: 3rd ISBN: 9780367366599 Format: Hardcover Publisher: CRC Press Pub. Date: 3/5/2021
What is the ideal format for course delivery – in person, online or blended? To what extent could this course be offered online if necessary?
This course can be taught fully online (face-to-face meetings are not required).
How is the final grade for the course determined? (Please list all required assignments, assessments, etc.)
The final grade is comprised of: homework 30%, attendance/participation 20%, paper 20%, oral presentation 10%, midterm 10%, and Final 10%. All content/assignments in the eLearn shell must be completed by the students.
Who is responsible for grading the required assignments and/or assessments? (faculty or instructor?)
The high school instructor is responsible for scoring/grading these assessment and putting grades in the eLearn gradebook.
What is the grading scale for the course?
The standard Grading Scale is used (A: 90-100, B 80-89, C: 70-79, etc.).
Must students access the eLearn shell regularly to complete requirements?
Course requires that students complete work in eLearn, including homework, a paper, an oral presentation, a midterm test and a final test. Students will post in discussion forms, use a thumb drive (or other means) to save files.
Does the course require access to YouTube, GoogleDrive, etc.?
High Speed Internet is required
Additional course details or requirements important for instructors not covered above:
This course covers the foundations of unmanned aerial systems (UAS), including history, elemental systems including payloads, data links, ground support equipment, classes of UAS, categories, applications, mission planning and control, and launch/recovery systems.
Most common (or popular) degrees this course is in?
Please see chart on next page.

Program Code	Program Name
⊟ AVT-1101 Introduction to Unmanned Aerial Systems	
AGEQ.S.CRT	Agricultural Equipment Operator
AGR.S.AAS	Agricultural Sciences
UAS.S.AAS	Unmanned Aerial Systems
UAS.S.BAS	Unmanned Aerial Systems (UAS)
UAS.S.CRT	Unmanned Aerial Systems
UASAG.S.STC	UAS Precision Agriculture
UASDTA.S.STC	Aerial Sensing Data Analytics
UASENT.S.CRT	UAS Entrepreneurship
UASFR.S.STC	UAS First Responders
UASGIS.S.STC	UAS for Geographic Information Systems