

AVT-2150: Crew Resource Management for UAS
Credit Type – Proficiency



MIAMI VALLEY
TECHPREP
CONSORTIUM

Course Description and Learning Outcomes:
https://www.sinclair.edu/course/params/subject/AVT/courseNo/2150/
Faculty Pathway Specialist(s) (Please include name, email and office hours):
Gregory Garman, gregory.garman@sinclair.edu
Resources Needed to Offer Course (software, equipment, books [include ISBN and edition], etc. – please include any associated costs):
Crew Resource Management, Third Edition by Kanki, Barbara G., Anca, Jose, Chidester, Thomas, R.; Edition 3 rd ISBN: 978-0-12-812995-1 Format: Paperback Publisher: Elsevier Academic Press
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 15%, Scenarios/Participation 15%, Attendance 10%, Final Paper 30%, Final Exam 30%
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:
Provides students with an introduction to the principles and concepts of crew resource management (CRM) through interactive discussion and scenario based analysis as it relates to UAS operations and the challenge of optimizing the human/machine interface and accompanying flight operations. Discussion and scenario based activities include CRM markers, principles and concepts of CRM, team building, information transfer, problem solving, risk management and decision making, communications process, conflict resolution and maintaining situational awareness when dealing with UAS automated systems.
Most common (or popular) degrees this course is in?

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