Unmanned Vehicle Systems Operations
ASSOCIATE IN SCIENCE (AS)
2024 - 2025

Student's Name: _____

Student's ID Number: _____

Pathway Navigator: _____   Faculty Advisor: *Arrash Shakari*

General Education (15 hours)

The Associate in Science degree consists of a minimum of 60 college-level semester hours with at least 15 semester hours of General Education Core courses. The General Education Core courses are chosen for their appropriateness for each degree and represent courses from each of the following disciplines: humanities/fine arts, natural science/mathematics, behavioral science/ social science and communications. Consult with your Faculty Advisor if you have any questions.

Communications (3/4 credits)

☐ ENC1101 English Composition I●+*	3
☐ ENC1101C Enhanced English Comp. I●+*	4

Humanities (3 credits)
Select one Humanities course

Humanities 1–Visual & Performing Arts

☐ ARH2000 Understanding Visual Arts●	3
☐ MUL2010 Understanding Music●	3
☐ THE2000 Understanding Theater●	3

Humanities 2–Philosophy/Religion
Prerequisite ENC1101 or ENC1101C with grade "C" or higher.

☐ HUM2020 Introduction to Humanities●+*	3
☐ PHI2010 Intro. to Philosophy●+*	3

Humanities 3–Literature
Prerequisite ENC1102 with grade "C" or higher.

☐ LIT2000 Literature and Culture●+*	3

Mathematics (3 credits)
Select one Mathematics Course

☐ MGF1130 Mathematical Thinking●+*	3
☐ STA2023 Statistics●+*	3
☐ MAC1105 College Algebra●+*	3
☐ MAC2311 Calculus with Geometry I●+*	4

Natural Sciences (3 credits)
Select one Science course

Physical Sciences

☐ AST1002 Descriptive Astronomy●	3
☐ CHM1045 General Chemistry●+	3
☐ ESC2000 Earth & Space Science Survey●	3
☐ EVR1001 Intro. to Environmental Science●	3
☐ GLY1010 Physical Geology●	3
☐ OCE1001 Fundamentals of Oceanography●	3
☐ PHY1020 Basic Concepts of Physics●	3
☐ PHY2048 University Physics I●+	4
☐ PHY2053 College Physics I●+	3

Biological Sciences

☐ BSC1005 General Biological Science●	3
☐ BSC2010 Biology for Science Majors I●+	3
☐ BSC2085 Anatomy & Physiology I●+	3

Social Sciences (3 credits)
Select one Social Science Course

History

☐ AMH2010 United States History I●@	3
☐ AMH2020 United States History II●@	3

Government

☐ POS2041 American Nat'l Government●@	3

Major Courses (47 hours)

The Unmanned Vehicle Systems Associate of Science degree gives graduates the expertise they need for employment as operators, observers, sensor operators, and operations administrators of unmanned vehicle systems. The coursework covers several UAS applications areas, including but not necessarily limited to surveillance and data collection, highly repetitive operations, and autonomous operations. Students also learn about the engineering aspects of these unmanned vehicle systems and the regulations governing their operation.

☐ CGS1570 Microcomputer Applications	3
☐ EET1084C Intro. to Electronics#	3
☐ ASC2560C Unman. Vehic. Syst. Operat. I+#*	3
☐ ASC2561C Unman. Vehic. Syst. Operat. II+#*	3
☐ ATT1100 Private Pilot Ground School+*	3
☐ ATT1101 Private Pilot Applications+*	3
☐ GIS2040C Intro. to Geographic Inform. Syst.*	3
☐ GIS2030C Fundamentals of Remote Sensing*	3
☐ COP1000 Intro. to Programming Logic	3
☐ ETD1320C Introduction to CAD#	3
☐ ETS2606C Robotics#	3
☐ MTE1811C Intro. To Seamanship	3
☐ DSC2250 Unman. Veh. Fund. Disast. Mgt.+#*	3
☐ COP2700 Data Structure (SQL)	3
☐ ASC2564 Unman. Veh. Systems Security#*	3
☐ ASC2949 Unman. Systems Practicum+*	2

Courses not Used

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Other AS Requirements

☐ **General Education Core Requirement**
Successful completion of at least one dotted core course from each of the five major general education areas: Communications, Humanities, Mathematics, Natural Sciences, Social Sciences

☐ **Civic Literacy Requirement (@)**
Successful completion of AMH 2010 OR AMH 2020 OR POS 2041 **AND** passing score on civic literacy exam (FCLE)

Key

+ = Prerequisite or co-requisite required
* = Minimum grade of "C" required
@ = Course meets Civic Literacy Requirement
● = General Education Core course
= Applies to A.S. and Certificate Programs

Notes

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