

# Unmanned Vehicle Systems Operations

## ASSOCIATE IN SCIENCE (AS)

### 2024 - 2025

Student's Name: \_\_\_\_\_

Student's ID Number: \_\_\_\_\_

Pathway Navigator: *Rachel Hibbard* Faculty Advisor: *Arrash Shakari*

General Education (15 hours)	Major Courses (47 hours)	Notes
<p>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.</p> <div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Communication (3 credits)</b></div> <p><input type="checkbox"/> ENC1101 English Composition I +* 3</p> <p><input type="checkbox"/> ENC1101C Enhanced English Comp. I +* 4</p> <div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Humanities (3 credits)</b> <b>Select one Humanities course</b></div> <p><b>Humanities 1–Visual &amp; Performing Arts</b></p> <p><input type="checkbox"/> ARH2000 Understanding Visual Arts 3</p> <p><input type="checkbox"/> MUL2010 Understanding Music 3</p> <p><input type="checkbox"/> THE2000 Understanding Theater 3</p> <p><b>Humanities 2–Philosophy/Religion</b> <i>Prerequisite ENC1101 or ENC1101C with grade "C" or higher.</i></p> <p><input type="checkbox"/> HUM2020 Introduction to Humanities●+* 3</p> <p><input type="checkbox"/> PHI2010 Intro. to Philosophy●+* 3</p> <p><b>Humanities 3–Literature</b> <i>Prerequisite ENC1102 with grade "C" or higher.</i></p> <p><input type="checkbox"/> LIT2000 Literature and Culture +* 3</p> <div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Mathematics (3 credits)</b> <b>Select one Mathematics Course</b></div> <p><input type="checkbox"/> MGF1130 Mathematical Thinking +* 3</p> <p><input type="checkbox"/> STA2023 Statistics +* 3</p> <p><input type="checkbox"/> MAC1105 College Algebra +* 3</p> <p><input type="checkbox"/> MAC2311 Calculus with Geometry I +* 4</p> <div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Natural Sciences (3 credits)</b> <b>Select one Science course</b></div> <p><b>Physical Sciences</b></p> <p><input type="checkbox"/> AST1002 Descriptive Astronomy 3</p> <p><input type="checkbox"/> CHM1045 General Chemistry + 3</p> <p><input type="checkbox"/> ESC2000 Earth &amp; Space Science Survey 3</p> <p><input type="checkbox"/> EVR1001 Intro. to Environmental Science 3</p> <p><input type="checkbox"/> GLY1010 Physical Geology 3</p> <p><input type="checkbox"/> OCE1001 Fundamentals of Oceanography 3</p> <p><input type="checkbox"/> PHY1020 Basic Concepts of Physics 3</p> <p><input type="checkbox"/> PHY2048 University Physics I + 4</p> <p><input type="checkbox"/> PHY2053 College Physics I + 3</p> <p><b>Biological Sciences</b></p> <p><input type="checkbox"/> BSC1005 General Biological Science 3</p> <p><input type="checkbox"/> BSC2010 Biology for Science Majors I + 3</p> <p><input type="checkbox"/> BSC2085 Anatomy &amp; Physiology I + 3</p> <div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Social Sciences (3 credits)</b> <b>Select one Social Science Course</b></div> <p><b>History</b></p> <p><input type="checkbox"/> AMH2010 United States History I @ 3</p> <p><input type="checkbox"/> AMH2020 United States History II @ 3</p> <p><b>Government</b></p> <p><input type="checkbox"/> POS2041 American Nat'l Government @ 3</p>	<p>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.</p> <p><input type="checkbox"/> CGS1570 Microcomputer Applications 3</p> <p><input type="checkbox"/> EET1084C Intro. to Electronics# 3</p> <p><input type="checkbox"/> ASC2560C Unman. Vehic. Syst. Operat. I+##* 3</p> <p><input type="checkbox"/> ASC2561C Unman. Vehic. Syst. Operat. II+##* 3</p> <p><input type="checkbox"/> ATT1100 Private Pilot Ground School+* 3</p> <p><input type="checkbox"/> ATT1101 Private Pilot Applications+* 3</p> <p><input type="checkbox"/> GIS2040C Intro. to Geographic Inform. Syst.* 3</p> <p><input type="checkbox"/> GIS2030C Fundamentals of Remote Sensing* 3</p> <p><input type="checkbox"/> COP1000 Intro. to Programming Logic 3</p> <p><input type="checkbox"/> ETD1320C Introduction to CAD# 3</p> <p><input type="checkbox"/> ETS2606C Robotics# 3</p> <p><input type="checkbox"/> MTE1811C Intro. To Seamanship 3</p> <p><input type="checkbox"/> DSC2250 Unman. Veh. Fund. Disast. Mgt.+##* 3</p> <p><input type="checkbox"/> COP2700 Data Structure (S L) 3</p> <p><input type="checkbox"/> ASC2564 Unman. Veh. Systems Security##* 3</p> <p><input type="checkbox"/> ASC2949 Unman. Systems Practicum+* 2</p> <div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Courses not Used</b></div> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
	<div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Other AS Requirements</b></div> <p><input type="checkbox"/> <b>General Education Core Requirement</b> 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</p> <p><input type="checkbox"/> <b>Civic Literacy Requirement (@)</b> Successful completion of AMH 2010 OR AMH 2020 OR POS 2041 <b>AND</b> passing score on civic literacy exam (FCLE)</p>	
	<div style="background-color: #003366; color: white; padding: 5px; text-align: center;"><b>Key</b></div> <p>+ = Prerequisite or co-requisite required</p> <p>* = Minimum grade of "C" required</p> <p>@ = Course meets Civic Literacy Requirement</p> <p>● = General Education Core course</p> <p>#=Applies to A.S. and Certificate Programs</p>	