

# UNMANNED SYSTEMS-UXS COMMERCIAL SPACE OPERATIONS OPTION

## Associate in Applied Science

### Curriculum Requirements

#### Communications **Credits: 6**

ENG 140 English Composition I	3
COM 107 Technical Writing	3

#### Mathematics-Science-Technology **Credits: 9**

MAT 131 College Algebra	3
PHY 105 Astronomy	3
UAS 211 Introduction to Robots & Programming	3

#### Humanities or Social Science **Credits: 6**

UAS 202 Introduction to Digital Photography	3
UAS 207 Introduction to 3D Printing	3

#### Career Courses **Credits 39**

UAS 101 Unmanned Systems	3
UAS 103 UAS Flight Simulation	3
UAS 105 Remote Pilot Operations (Part 107)	3
UAS 106 Unmanned Aircraft Systems Safety & Security	3
UAS 108 UAS Maintenance and Repair	3
UAS 110 Introduction to DC 7 AC Circuits & Electronics	3
UAS 117 Overview of Commercial Space Ecosystem	3
UAS 118 Commercial Space Operational Missions & Launch Industry	3
UAS 119 Space Habitation & Life Support Systems	3
UAS 208 Advanced UAS Systems, Robotic Assembly & Operational Performance	3
UAS 209 UAS Photogrammetry, Remote Sensing & Analysis	3
UAS 210 Unmanned Systems Capstone Project	3
UAS 212 Advanced Remote Sensing & Infrared Thermography	3

### Recommended F/T Course Sequence

#### First Semester **Credits 15**

ENG 140 English Composition I	3
MAT 131 College Algebra	3
UAS 101 Unmanned Systems	3
UAS 103 UAS Flight Simulation	3
UAS 117 Overview of Commercial Space Ecosystem	3

#### Second Semester **Credits 15**

COM 107 Technical Writing	3
UAS 105 Remote Pilot Operations (Part 107)	3
UAS 106 Unmanned Aircraft Systems Safety & Security	3
UAS 118 Commercial Space Operational Missions & Launch Industry	3
UAS 209 UAS Photogrammetry, Remote Sensing & Analysis	3

#### Third Semester **Credits 15**

UAS 110 Introduction to DC & AC Circuits & Electronics	3
UAS 119 Space Habitation & Life Support Systems	3
UAS 202 Introduction to Digital Photography	3
UAS 208 Advanced UAS Systems, Robotic Assembly & Operational Performance	3
UAS 211 Introduction to Robots & Programming	3

#### Fourth Semester **Credits 15**

PHY 105 Astronomy	3
UAS 108 UAS Maintenance and Repair	3
UAS 207 Introduction to 3D Printing	3
UAS 210 Unmanned Systems Capstone	3
UAS 212 Advanced Remote Sensing & Infrared Thermography	3

**Credits Needed for Degree** **60**

## **UNMANNED SYSTEMS-UXS COMMERCIAL SPACE OPERATIONS OPTION**

### **Associate in Applied Science**

From commercial space launches to the global support for the International Space Station, the growth in space applications is unprecedented. This specialized program option addresses space as applied to the current global space industry. The program offers a broad understanding of the different aspects of the global space industry, including applications in space (commerce, defense, exploration, and science), mission and launch operations, space habitation and life support systems, as well as remote sensing and satellite operations. The program explores current strategies and private sector and government responses to exploit space for commercial business enterprise development through a multidisciplinary approach to rapidly changing space technologies and commercial opportunities for space exploration and business investment.