



# ADVANCED DRONE Operations



- POST-SECONDARY AND COMMERCIAL CURRICULUM
- INDUSTRY CERTIFICATION
- JOB PORTFOLIOS
- TEACHER PD & INDUSTRY CERTIFICATION

## ADVANCED OPERATIONS

(Beyond Visual Line of Sight, Extended VLOS, Night Operations, Congested Areas)

### GROUP 2 & 3 AIRCRAFT

>20 lbs and <1,320 lbs

**MEDIUM TO HIGH RISK  
OPERATIONS**

## Simulation Integration



RC Transmitters



Student Login for Hour Tracking



Commercially Relevant



GUI For Automation Management





Building



Transportation



Energy

# ADVANCED Operations

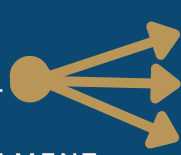


## USI PARTNER DRIVEN PATHWAY PROGRAMS:

### HIGH SCHOOL

#### OPTIONS:

ARTICULATED CREDIT  
DUAL ENROLLMENT  
CONCURRENT ENROLLMENT



### 2 YR TECHNICAL COLLEGE

### 4 YR UNIVERSITY

### EMPLOYMENT

### 4 YR UNIVERSITY

### EMPLOYMENT

### EMPLOYMENT

- STANDARDIZED OPERATIONS
- RELEVANT CONTENT
- WORKFORCE-ORIENTED
- JOB PORTFOLIOS FOCUSED ON SAFE OPERATIONS
- EQUIPMENT AND AIRCRAFT OPTIONS AVAILABLE

## WHAT'S INCLUDED?

- Digital Textbook and Workbook
- 3rd Party Testing for Certification
- Simulation for Skill-Based Training and Certification
- OEM or Insurance Authorized Training Program
- Software for Safety Risk Assessment, Equipment, Student and Currency Tracking



## VISTA®



Equipment and Aircraft Tracking and Maintenance Program



Student Simulation and Live Flight Hour Tracking



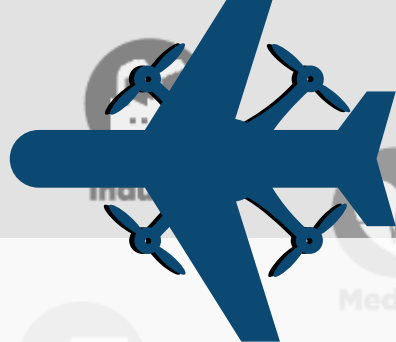
Safety Risk Management & Incident Reporting



Administrative Oversight and Insight and Reporting



# VISTA



Building



Transportation



Energy

# ADVANCED Operations



## OPERATIONAL RISK CATEGORIES

### Aviation Risk-Based Approach to Scaling and Standardizing Operations

#### PRIMARY

VLOS

Operations

- Part 107
- Aircraft  $\leq 20$  lbs
- Low Risk Operations
- Highly Automated

#### ADVANCED

Operations

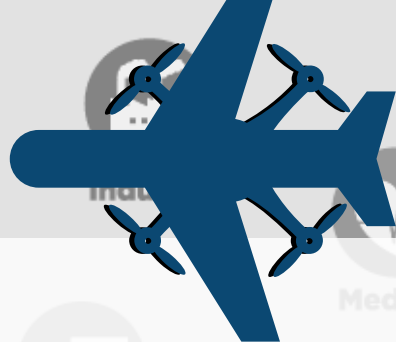
- (BVLOS, Night Operations, etc)
- Aircraft  $> 20$  lbs and  $\leq 1320$  lbs
- Medium to High Risk Operations

#### COMPLEX

Operations

- (EVTOL, AAM/UAM, OPA, Complex Aircraft)
- Aircraft  $> 1320$  lbs
- Medium to High Risk Operations





Building



Transportation



Energy

# ADVANCED Operations



## Advanced Safety: Level 1

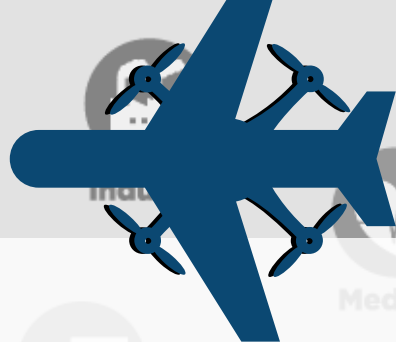
- UAS Applications
- UAS and The Elements (Operating Environment)
- Remote Pilot Professionalism
- Rules and Regulations
- Airspace Operations
- Human Factors and UAS
- Crew Resource Management
- Aeronautical Decision Making



## Advanced Safety: Level 2

- Introduction to Aviation Safety
- Safety Risk Management
- Safety Assurance
- Safety Promotion





Building



Transportation



Energy

# ADVANCED Operations



## Advanced Operations: Ground

- OEM Authorized or Insurance Backed Training
- System Specific Safety Training
- Flight Planning and Operations
- Emergency/Abnormal Considerations
- Maintenance
- Payloads



## Advanced Operations: Flight

- Simulation Training
- Initial Qualification Training
- Process and Procedure Evaluation
- Instructor Driven Evaluation to Practical Test Standards
- Skills/Knowledge/Attitudes Toward Safe Operations
- Automation Management
- CRM/ADM Evaluations

