

# Unmanned Systems

## Aviation Department

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**Description of major:** Indiana State University (ISU) is one of the first universities to offer unmanned systems (UMS) education and training in the world. ISU is ranked one of the Top Five Best Drone Training Colleges in the United States by Drone Training HQ. ISU is expanding the UMS program by adding new classes, faculty, and adapting to industry demands. ISU is attracting students from other states and countries who are coming to ISU because UMS is not offered where they come from.

The minor program includes an introduction to unmanned systems operations and a study of advanced unmanned aircraft theory. Additional areas of UMS modeling and control fundamentals, ground based systems, visual and electro-optical aspects of navigation, obstacle and terrain avoidance systems, modular on-board processing systems, and current applications are explored.

Students learn about the significant regulations impacting the unmanned systems operations and the differences with manned systems. Paramount to all aviation operations, safety assessment, functional requirements, UMS integration, and sensitivity analysis are explored. Students demonstrate proficiency in UMS programming, preflight, flight operations, post flight inspection, and mission analysis and debriefing.

**Math Requirement:** Basic Foundational Studies Requirement

**Science and Lab Requirement:** Environmental Science

**Hands on/Lab Based:** Yes

**Theoretical/Analytical:** No

**Distance Program:** No

**Accreditation:** Higher Learning Commission

**Popular Jobs Associated:** Disaster Response, Crisis Management, Precision Agriculture, Construction

**Average Salary Range:** \$35,000-\$75,000

### **Department of Major Contact Information:**

Aviation Department  
College of Technology  
Indiana State University  
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