Program Description

The unmanned aerial systems concentration of the BS program in aeronautical management technology prepares students for careers in the rapidly growing area of unmanned aerial systems, including operations, remote sensing, data collection and analysis.

The concentration incorporates all aviation management technology core courses and unmanned aerial systems concentration courses. This provides an overview of unmanned aerial systems operations followed by detailed knowledge of unmanned aerial systems-specific systems and technology (ground control stations; data links; flight planning and operations; search, detect and avoid technologies; and payloads) and unmanned aerial systems sensor operations. A critical aspect of this academic area of study is the data capture and transfer of the sensor information collected from the unmanned aerial vehicle.

This innovative concentration brings together the most up-to-date and relevant aspects facing multiple industries today by addressing flight system planning and operations and the employment of the systems in the congested National Airspace System.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Polytechnic campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 170 - Precalculus
- **Math Intensity:** Moderate
Required Courses (Major Map)

2020 - 2021 Major Map

Major Map (Archives)

Accelerated Program Options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's and master's degree with:

Technology (Aviation Management and Human Factors), MSTech

Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be advised by their academic departments to apply.

Admission Requirements

General University Admission Requirements:

All students are required to meet general university admission requirements.

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Transfer Options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use the Transfer Map search to outline a list of recommended courses to take prior to transfer.

ASU has transfer partnerships in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.
Global Opportunities

Global Experience

With over 250 programs in more than 65 countries ranging from one week to one year, study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st-century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. https://mystudyabroad.asu.edu/

Career Opportunities

Students graduating from this program are ready to find various employment opportunities as unmanned aerial vehicle pilots and sensor operators in both the U.S. and worldwide. This concentration prepares students to operate small to mid-range platforms that are used by emergency responders, forestry, agriculture, energy and oil, and other similar industries. Entry-level pay is competitive for this highly specialized field.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geospatial Intelligence Analyst</td>
<td>7.2%</td>
<td>$103,990</td>
</tr>
<tr>
<td>IP/Mosaic Technician</td>
<td>9.7%</td>
<td>$48,090</td>
</tr>
<tr>
<td>Logistics Manager</td>
<td>6.7%</td>
<td>$92,460</td>
</tr>
<tr>
<td>Transportation Dispatcher</td>
<td>6.7%</td>
<td>$92,460</td>
</tr>
<tr>
<td>Warehouse Manager</td>
<td>6.7%</td>
<td>$92,460</td>
</tr>
</tbody>
</table>

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

Bright Outlook  Green Occupation

Contact Information