


# AABInternational

	Western Michigan University
	College of Aviation
	Aviation Flight Science, Management and Operations, and Technical Operations
December 2023	Student Achievement Data

AABI accredited aviation programs must publish a report of student achievement data on their public website including the following information, updated annually:

- The Program Educational Goals
- Program Assessment Measures
- Retention and Graduation Rates
- Employment Rates and Types of Employment of Graduates

The WMU College of Aviation has three distinct aviation undergraduate programs. They include Aviation Flight Science, Aviation Management and Operations, and Aviation Technical Operations.

## College of Aviation Program Educational Goals

1. Graduates will be employed in the aviation or aerospace industry or apply their learned aviation experience to their career of choice.
2. Graduates will become competent aviation professionals and leaders who work effectively on diverse teams and can solve operational challenges in the aerospace industry.
3. Graduates will explain regulatory and legal issues which impact the aviation industry.
4. Graduates will be able to demonstrate effective safety procedures and decision-making skills in an operational environment.

## Flight Science Program Learning Outcomes

The mission of the Aviation Flight Science Program (AFSJ) is to provide industry with a professional aviator that serves as a responsible leader within an organization. Graduates will exhibit high levels of technical skill, leadership ability and global awareness that will make them effective problem solvers in a diverse and safety-oriented aviation industry.

Students who graduate from the Aviation Flight Science program will:

- Examine technical and procedural aspects of flight operations and aircraft systems and demonstrate application of this knowledge.
- Analyze flight operations in national and international airspace systems.

- Demonstrate aeronautical knowledge, flight proficiencies, and risk management components required to obtain an F.A.A. commercial pilot certificate with single engine and multi-engine, and instrument ratings.
- Explore regulatory and legal issues which impact the industry.
- Evaluate and apply Crew Resource Management skills in a flight operations environment.

#### Aviation Management and Operations Learning Outcomes

The mission of the Aviation Management and Operations Program (AMOJ) is to prepare students with the necessary knowledge, skills, and abilities to become professionals and leaders in a diverse, global aviation industry.

Students who graduate from the Management and Operations program will:

- Demonstrate knowledge of business principles and practices within the aviation industry.
- Apply effective written and oral communication skills within the aviation environment.
- Describe historical events, regulations, and current challenges and trends, which impact the aviation industry.
- Recognize aviation procedures based on human factors and conduct aviation operations utilizing industry best-practices safety policies.

#### Aviation Technical Operations Learning Outcomes

The mission of the Aviation Technical Operations Program (ATOJ) is to provide comprehensive, high-quality education and training to individuals who aspire to become skilled aviation maintenance technicians and leaders in the aviation industry.

Through a combination of classroom learning and hands-on experiences, students who graduate from the Aviation Technical Operations program will:

- Demonstrate an in-depth technical knowledge of aircraft systems and operation.
- Demonstrate appropriate skills, techniques, and accepted practices necessary for aircraft maintenance and determination of airworthiness.
- Apply cognitive reasoning skills to aircraft systems analysis and troubleshooting.
- Prepare students to successfully complete the FAA Airframe and Powerplant Mechanic exams.
- Describe regulatory and legal issues which impact the industry.

#### Assessment of Program Educational Objectives

The program educational objectives will be completely assessed every five (5) years. A cycle of individual assessments will take place over the five-year period.

- Program placement rate (collected annually via survey or interview).
- Graduate industry placement, company, level, salary over time (annually for new graduates, every three years for alumni via survey or interview)
- Graduate feedback (every three years via survey or interview)
-

Student Retention and Graduation Rates

**WMU Aviation Data for Accreditation**

**2nd Year Retention - Must have started and stayed in College of Aviation**

	Cohort Year				
	Fall 2018	Fall 2019	Fall 2020	Fall 2021	Fall 2022
<b>AFSJ</b>	79.4%	77.2%	71.8%	84.7%	88.6%
<b>AMOJ</b>	60.0%	66.7%	72.7%	57.7%	76.9%
<b>ATOJ</b>	70.0%	61.5%	66.7%	66.7%	85.7%

**6 Year Graduation Rates - Must have started and graduated in College of Aviation**

	Cohort Year				
	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017
<b>AFSJ</b>	55.0%	52.6%	59.4%	52.7%	56.8%
<b>AMOJ</b>	22.2%	37.5%	38.5%	57.1%	52.4%
<b>MTCJ</b>	47.4%	36.4%	53.9%	53.9%	55.6%

**Degrees and Majors Awarded**

Aviation			2018-19	2019-20	2020-21	2021-22	2022-23
Aviation Sciences							
Baccalaureate Degrees	AFAJ	AVIATION FLIGHT SCI: OPTION A	3	1	1	0	0
	AFSJ	Aviation Flight Science	70	63	110	94	115
	AMOJ	Aviation Mgmt & Operations	44	61	75	97	65
	ATOJ	Aviation Technical Operations	0	1	0	7	22
	AVAJ	AVIATION SCIENCE & ADM	4	1	0	1	0
	MTCJ	AVIATION MAINTENANCE TECH	20	12	13	15	5
	Baccalaureate Degrees Total			141	139	199	214

Employment rates and types of employment of graduates

About the data: Western Michigan University conducts the annual Post-Graduation Activity Survey in accordance with the “Standards and Protocols for the Collection and Dissemination of Graduating Student Initial Career Outcomes Information” published by the National Association of Colleges and Employers (NACE).

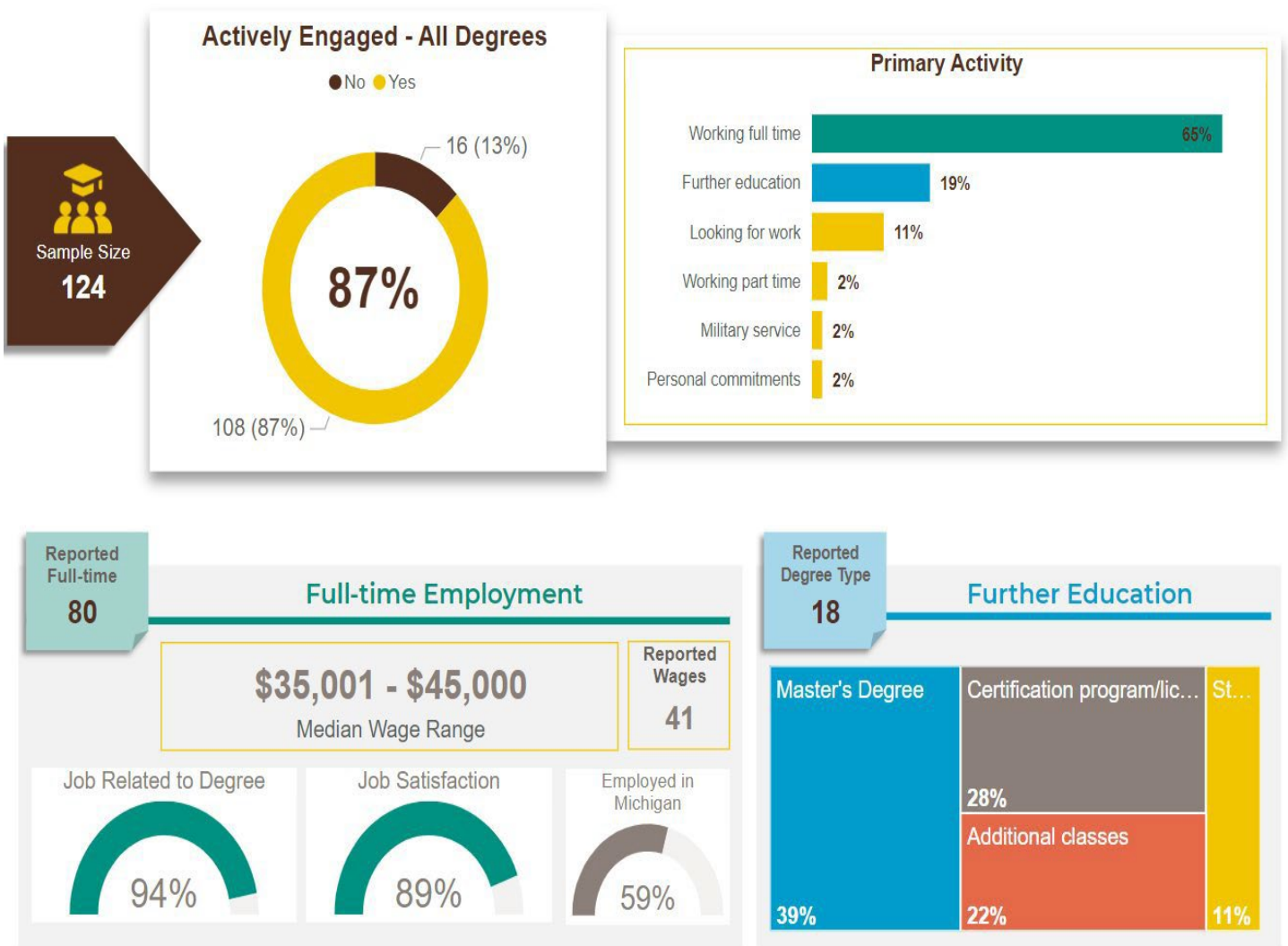
Three weeks before each graduation, all graduating students receive an email on behalf of their college dean, department chairperson, or program director with a personalized link to the Post-Graduation Activity Survey. Survey respondents select one post-graduation activity category:

working full time, working part time, further education, military service, volunteering full time (e.g., Peace Corps, AmeriCorps, mission work), personal commitments (e.g., family, travel, etc.), or looking for work.

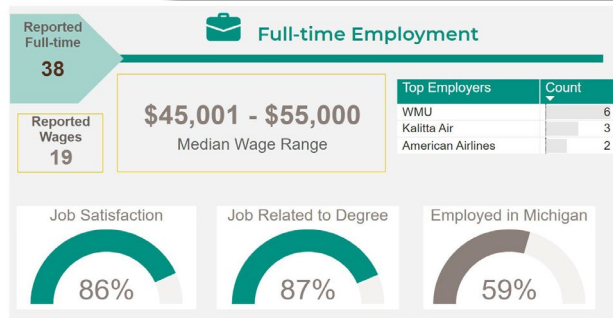
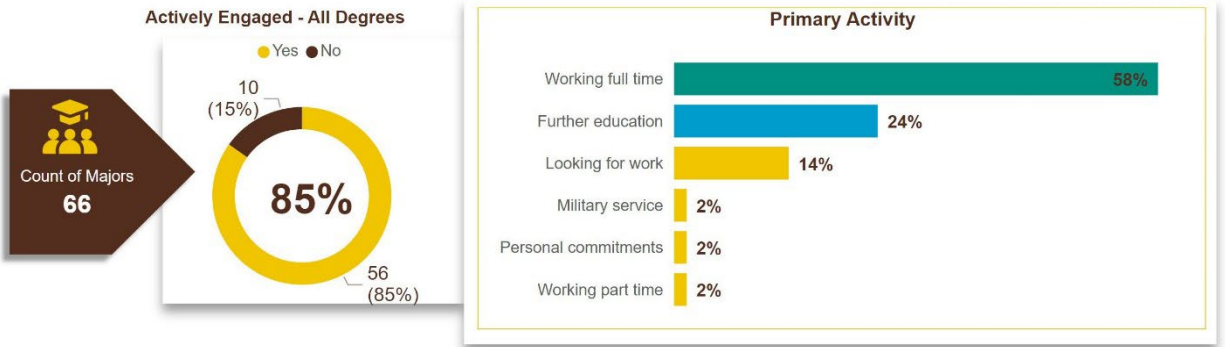
Nonrespondents receive at least four reminders via email. For the graduates who have not responded to the survey after multiple invitations, we gather employment data from public LinkedIn profiles.

Post-graduation activity data was updated throughout the year by following up with respondents who indicated they were seeking employment at the time of completing the survey. The data collection cycle ended on October 30, 2022.

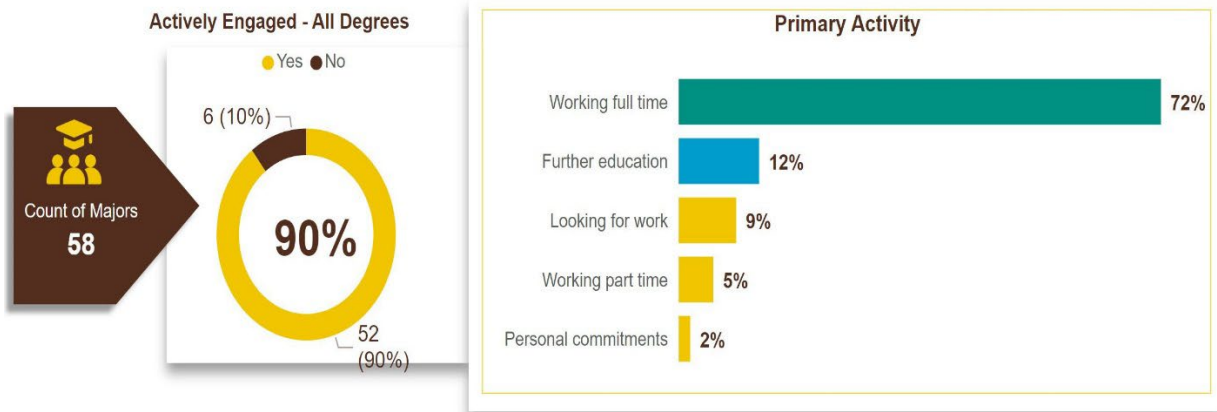
## College of Aviation Outcomes Overview 2021–2022



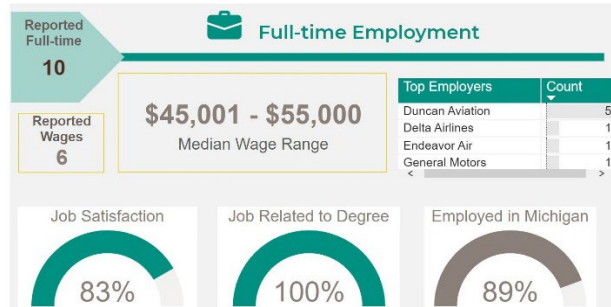
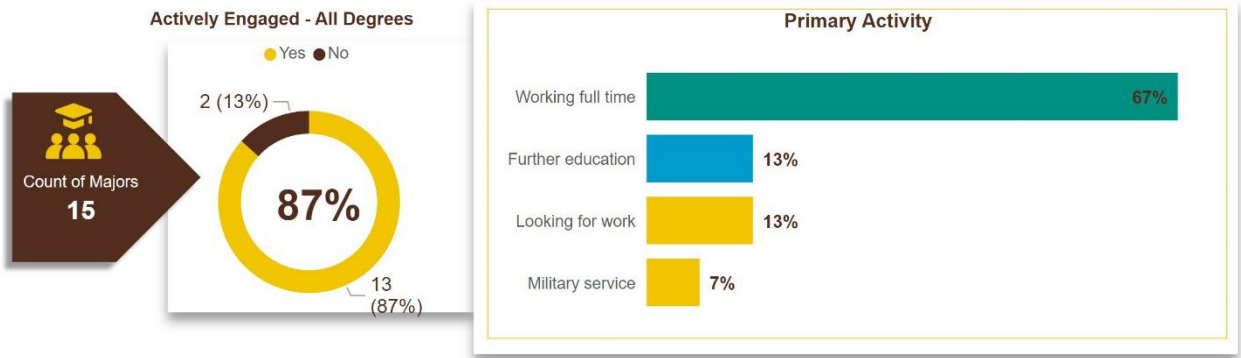
## Management & Operations Major



## Flight Science Major



# Technical Operations Major



## College of Aviation Outcomes Employment Info.

90 Sample Size by Major

### Top Employers

Employer, Job Titles	Count of Job Title
WMU	15
Duncan Aviation	7
Kalitta Air	4
Delta Airlines	3

### Top Job Titles

Job Title	Count of Job Title
Certified Flight Instructor	12
Flight Instructor	11
Pilot	3



## College of Aviation Outcomes – Further Education

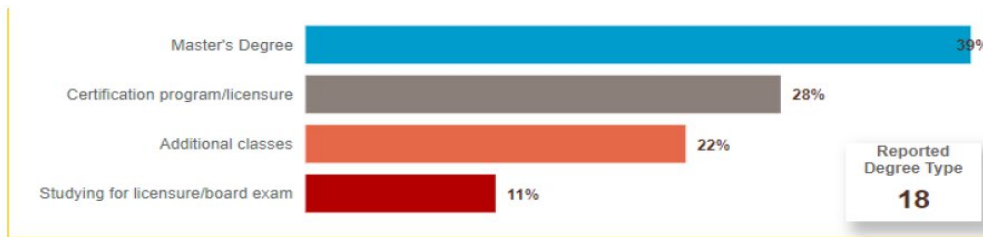
23  
Sample  
Size

### Schools

School, Field of Study	Count
Western Michigan University	5
ATP Flight School	2
Embry Riddle	2
Bluefield State College	1
Kal-Aero Flight Instruction	1
L3 Harris Flight Academy	1
Northwestern Michigan College	1

### Fields

Further Ed Field	Count
Aviation	8
Business Administration	4
Civil Engineering	1



## College of Aviation Outcomes – Internships & Experiential Learning

Reported  
Internship  
21

Employer	Count of Internships
Duncan Aviation	3
FAA Aviation Safety	2
Amway	1
Bank of America	1
Columbus Municipal Airport	1
Delta Air Lines	1
Egypt Air	1
General Motors	1
Indianapolis Motor Speedway	1
Kalamazoo/Battle Creek International Airport	1
Southwest Florida International Airport	1
Total Airport Services Chicago ORD	1
WMU, College of Aviation	1



**Experiential learning includes:**

- **Internship** - Internships and field experiences.
- **Job** - Working a job where I applied my studies.
- **Project** - Semester-long projects.
- **Activities** - Heavy involvement in co-curricular activities.