

Path to a Private Pilot Certificate



Private Pilots



Today's Flight Plan

- What is WMAA?
- Enrollment
- Flight Science Pathway
- Aviation Curriculum
- Private Pilot Ground School
- Flight Operations
- Lesson's Learned



Tuition-Free Public Charter High School Emphasis on Aviation & Engineering



STEM



Professionalism/Culture

Young Ladies and Gentlemen

Higher Expectations

- 70% or higher to earn credit
- Character Grade
- 100 Hour Community Service Requirement

Extended School Day

- School Day is 8:00am 3:30pm
- Seven class periods





Special Guests at WMAA







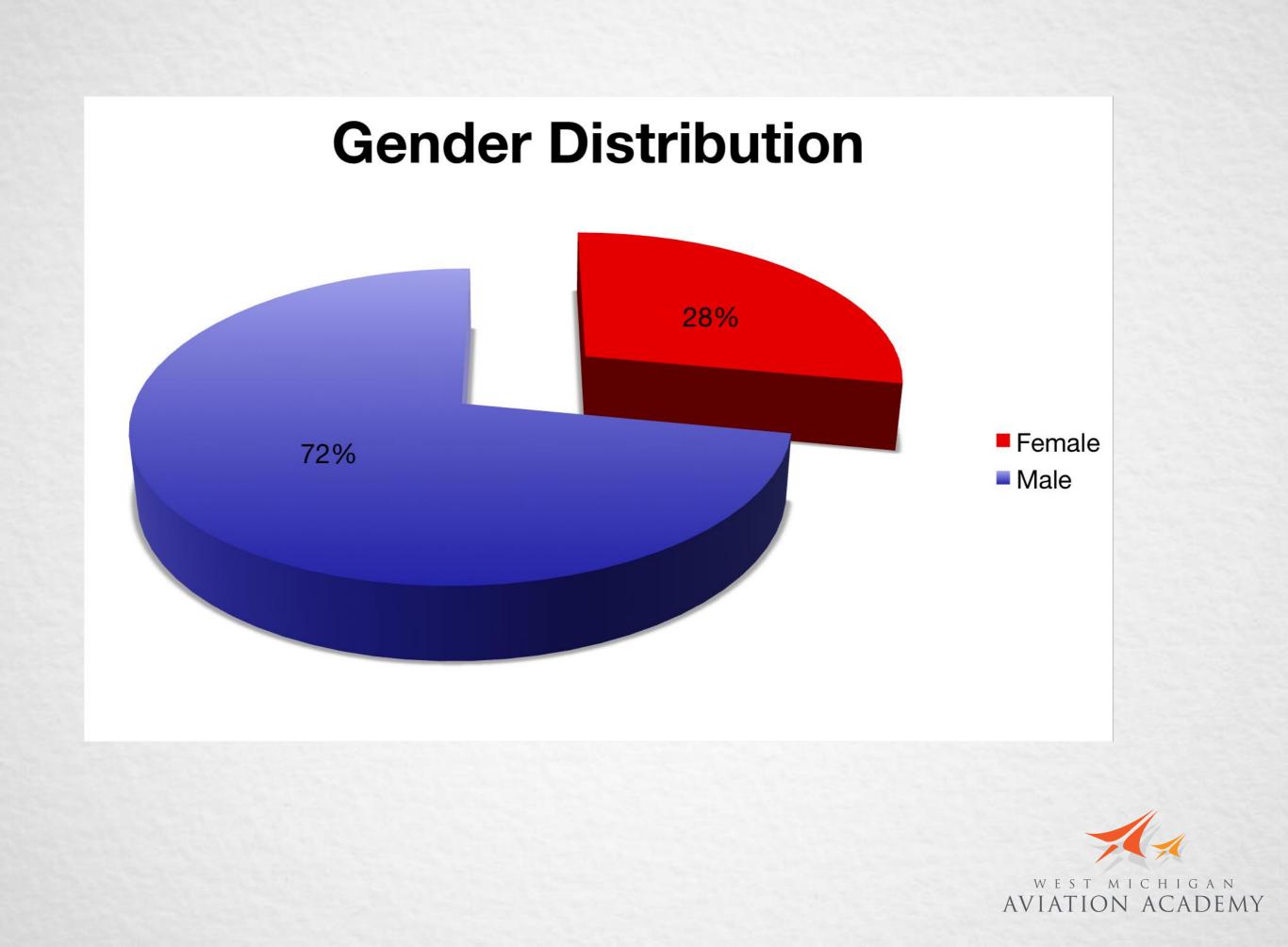


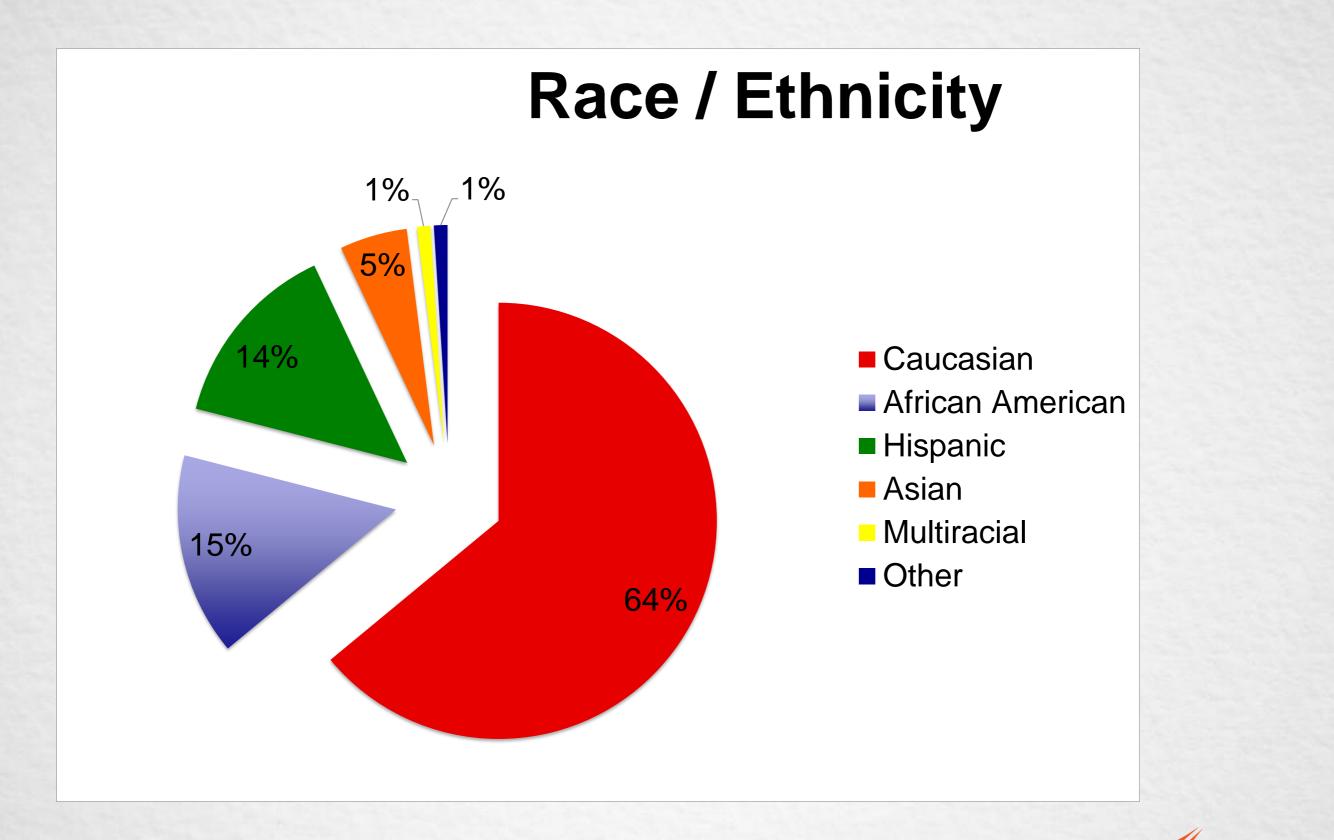
Our Partnerships

- Delta Air Lines Foundation
- Embry-Riddle Aeronautical University
- GE Aviation
- Gerald R. Ford International Airport
- Gulfstream
- Kalamazoo Air Zoo
- Bowling Green State University College of Aviation

- Northwestern Michigan College
- School of Missionary Aviation Technology
- Steelcase
- University of Michigan College of Engineering
- Western Michigan University
 College of Aviation







WEST MICHIGAN AVIATION ACADEMY

Flight Science Pathway

-Safety First -Professionalism -Pursuit of Excellence



Guidance

WMAA Board of Directors

Aviation Subcommittee

 Career in Technical Education (CTE) Advisory Committee



Aviation Curriculum

Grade 9

- Intro to Aviation
- Aviation History & Literature

Grade 10

- Aero Design & Simulation
- Aviation Physiology
- •Flight Brief
- Intro to Aviation Maintenance
- Intro to Flight Planning
- Intro to Remote Control
- Intro to Aviation Weather
- Intro to Drafting

Grade 11

- Private Pilot GROUND School
- Aviation Avionics KCTC
- •Aviation Maintenance KCTC
- Aviation Business Administration
- Aerospace Engineering

Grade 12

- Private Pilot FLIGHT School
- Intro to Unmanned Aerial Systems
- •Aviation Avionics KCTC
- Aviation Maintenance KCTC
- •Dual Enrollment KCC/WMU



Aviation-Related Activities

- WMU Junior Flight
 Team Competition
- Simulation Lab
- Summer Incentive Flight Program
- ACE Awards

- Kalamazoo Air Zoo Restoration Project
 - Civil Air Patrol
- Summer Glider Solo Camp

- Remote Control Airplane Club
- Field Trips/Guest Speakers







Flight Science Required Courses

Grade 9Intro to AviationAviation History & Literature

Grade 10Preflight PlanningIntro to Aviation Weather

Grade 11Private Pilot Ground School

Grade 12 •Flight Science Highly Recommend Glider Camp Participation



Preflight Planning

10 Weeks

- Atmosphere
- Takeoff and Landing Data
- Weight and Balance
- Crosswind Calculations
- Density Altitude Calculations
- VFR Charts
- E6B Flight Computer
- Navigation Log
- JayBird Desktop Simulation Landing Challenge

Goal: Identify future PPGS students





Private Pilot Ground School

Full Year

- Jeppesen Textbook
- Red Bird Advanced
 Training Device
- Jay Bird Simulators
- Student Binder
- Articles
- Video



Goal: Earn endorsement then... Pass FAA Written



Flight Science

Full Year (Two class periods 6-7)

- Jeppesen Flight Syllabus
- Student Grade Binder
- Red Bird Advanced Training Device
- Jay Bird Simulators
- Articles
- Video
- System Subject Matter Expert (SME)
- Private Pilot FAA Practical Test Study Guide (Jeppesen)
- Oral Exam Guide (ASA)

Goal: Private Pilot Certificate





FAA Check Ride

4-hour time block (Two hour oral and two hour practical)

Preparation

- FAA Written Results
- Endorsed Logbook
- Flight Grades Binder
- FAA Publications

- Maintenance Logbooks
- Emergencies and Limitations
- Oral Preparation
- FAA Designated Pilot Examiner





Certified Flight Instructors

Three on staff:

- Two retired F/A-18 Marines
- One corporate/charter/air ambulance
 - Must be state CTE certified
 - Three graduate level classes
 - Pass Professional Readiness Exam or ACT Benchmark

Two contract CFIs:

- One retired airline
- One retired ATC



Cessna 172SP

Avionics/Instrumentation

- Analogue gages
- Garmin KLN-94/89 GPS
- •NGT-9000+
- Garmin AOA Indicator





• Hangar

Shared with two maintenance entities

Maintenance

- Local & Remote
- Engine Overhaul



Gerald R. Ford International Airport (KGRR)



CADEMY

Daily Operations

Scheduling

Google Calendar & SkyManager

Flight Operations

- Check out/Check in
- Parking In/out
- Fueling
- Remote airports

Classroom Operations

- Simulators
- Academics



Lesson's Learned

Extra Curricular vs Integrated

- CTE Certification
- Qualified Instructors Retention **Insurance – Liability Funding – Gala / Individuals Medicals - Timing Citizenship - TSA Standardization – SOPs / Instructor** Stan Human Factor – Frequent HF Counsel **Payments – In the black** AVIATION ACADEMY Sofaty / Drofaccionaliam Doily

Future?

Aviator Flight Training Center



Questions?

