Howell Private Pilot Ground School
Class Mission

• Pass the Private Pilot Knowledge test
• Help those kids passionate about flying fulfill their dreams by providing the foundational knowledge to launch them into their pilot career.

Inaugural Private Pilot Ground School Class – Fall 2013
Aviation Industry Background

• Aviation industry represents about 5% of the U.S. GDP.
• It is the single largest industry in our country
• Components of Aviation Industry
  ▪ Airlines
  ▪ Regional Airlines
  ▪ Maintenance
  ▪ Air Traffic Control
  ▪ FAA
  ▪ Banner Towing
  ▪ Pipeline Patrol
  ▪ EMS
  ▪ Forestry
  ▪ Agriculture
  ▪ Charter operations
  ▪ Aircraft/Aerospace Manufacturers
  ▪ Space exploration
  ▪ Airport Operations
  ▪ Flight Schools & Collegiate Programs
Aviation College -Restricted ATP Requirements

- Reduced Hours 1000-1250 (normally 1500)
- Reduced Age of 21 (normally 23)

The Career Pilot Path

Flight Time

Private Pilot

Instrument

Commercial

Multi-Engine

CFI

CFII

Howell Private Pilot Ground

Flight Time

Ground School

Flight Time

Ground School

Flight Time

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Flight Time

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Flight Time

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Flight Time

Ground School

ATP

Flight Time

Ground School
What is the competitive advantage?

• **Why start in high school?**
  
  – **Save Money!**
    * $10K at Crosswinds vs. $14K - $19K at College Program
  
  – Private License at age 17
  
  – Assess Piloting as Career
  
  – Earn 10 College Credits
    * From Northwestern Michigan College if Private License completed at Crosswinds Aviation.
  
  – Demand for Pilots due to potential pilot shortage.
  
  – “Fast Track” into Collegiate Programs
    * Go right into Instrument training and be ahead of peers.
  
  – Great resume builder when interviewing
  
  – Make money flying and build hours
    * Can become a Flight Instructor sooner
Students Reaching new Horizons

• Exposure to many aspects of Aviation Industry
  – Students climb aboard an airplane & learn about aircraft
    • EAA Mason pilots donate 1st flight of students
    • EAA Young Eagle’s program donates 1st flight lesson with a certified flight instructor in the plane ($120 value)

EAA Chapter 384 Pilots donate flights to students
• Students meet with industry experts and gain exposure to the various aspects of aviation
  • Maintenance
  • Air Traffic Control
  • Aviation Colleges and Universities
  • Hands on training at Crosswinds Aviation

Matt Tingley teaching engine maintenance

Al Larson from Northwestern Michigan College

Art Mortvedt – Pilot of the “Polar Pumpkin”
- Airline & Corporate Pilots
- FAA Designated Pilot Examiners
- Flight School Operations
- Flight planning and cross country flying

Matt Dahline - Cross country flight planning demo

Matt Dahline - Flight controls & Airplane pre-flight demo

Trent Haverstick - Delta Airlines First Officer
$470 Young Eagle Benefits

- Sporty’s Online Learn to Fly Ground school
- $120 toward flight lesson after completing first 3 volumes of Sporty’s course
- Reimburse Students that take and pass FAA Written Exam ($150 value)
Medical Requirement
Before you can solo an aircraft you will need to obtain a 
3rd class medical - student pilot certificate.

If you are looking to fly as a career you should look to get a 1st class medical.

Please review the following sites for information regarding the following medical conditions:
Coronary Artery Disease
http://www.faa.gov/licenses_certificates/medical_certification/specialissuance/coronary/

Hypertension (or high blood pressure)
http://www.faa.gov/licenses_certificates/medical_certification/specialissuance/hypertension/

Insulin-Treated Diabetes
http://www.faa.gov/licenses_certificates/medical_certification/specialissuance/diabetes/

Policy on Antidepressants / ADD & ADHD medications
http://www.faa.gov/licenses_certificates/medical_certification/specialissuance/antidepressants/
Program Successes

- 58 students through program
- 8 High school students achieved Private Pilot license
- 20 High school students working on Private Pilot rating
- Community sees as valuable program for students
- 2 local scholarships awarded
- College Level ground school setup for next year
About us

• Passionate about aviation and helping our students achieve their passion in aviation
• Been living in Howell for over 14 years
• 2 kids that attend Howell Southeast School, 4th and 6th grade
Crosswinds Aviation Core Philosophy

• Safety is our Primary Concern
  – Utilize Scenario based training to teach good pilot judgment
  – Highest maintenance standards possible on newer aircraft
  – Utilize the Simulator to help train to proficiency

• Community Outreach – Creating an aviation community in Howell
  – Working with Howell high school & middle school teachers–tours and classroom support
  – EAA member (Experimental Aircraft Association)
  – Young Eagle’s Volunteer Pilot
  – Howell Chamber Member
  – Rotarian member
  – Chair of the Howell Downtown Development Authority (DDA) Business Development Team
  – Participant in the Aviation Teacher Workshops which are hosted by the Michigan Aeronautics Commission in Lansing, MI
Community Outreach – Continued
- Sponsors of Balloonfest, Melon Fest, Farmer’s Market
  - Since 2012 have put over 3000 kids in our static display of our aircraft at Balloonfest
  - Sharing aviation with attendees and teaching aviation
- Tours & presentations to Howell Middle School, Boy Scouts and Girl Scouts of America
Family flying is a lifestyle