



Ingham Intermediate School District Aviation Course

Industry Liaison:



Class Mission

- Expose students to the world of aviation while allowing them to explore the many aspects of the industry & career opportunities
- 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



Howell High Aviation Videos

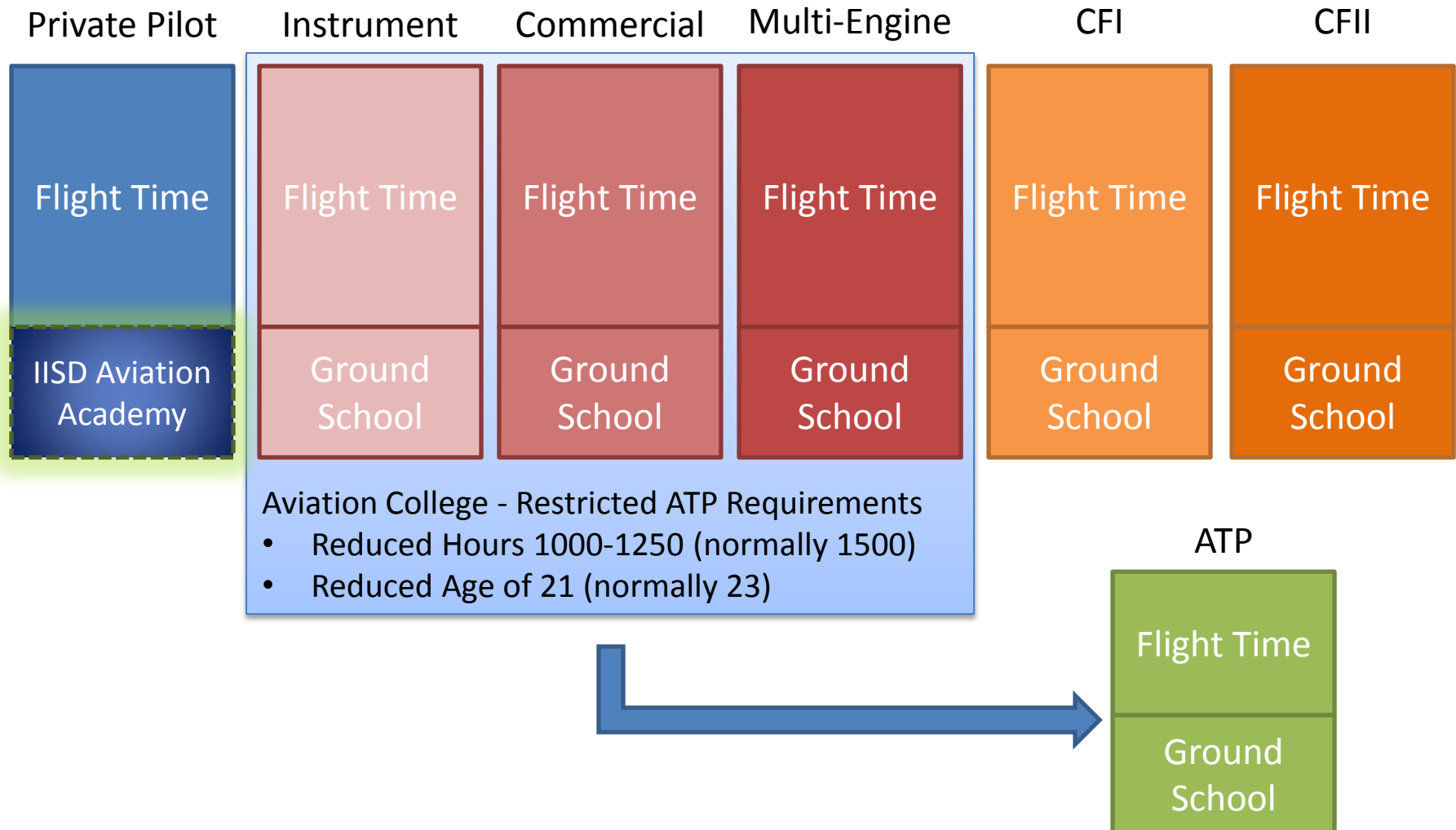


Aviation Industry Background

- 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
 - Charter operations
 - Aircraft/Aerospace Manufacturers
 - Space exploration
 - Airport Operations
 - Flight Schools & Collegiate Programs



The Career Pilot Path



IISD Aviation Academy

- **Private / Instrument pilot ground school**
 - Year long course. Ideally 2 periods in the morning
 - College level course to pass Private knowledge test and introduce Instrument Rating concepts
 - Contracted to Crosswinds Aviation
- **Flight instruction can be given at Capital City Airport with Crosswinds Aviation to obtain Private Pilot License**

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



Trent Haverstick-
Delta Airlines First Officer



Matt Dahline-
Flight controls & Airplane pre-flight demo



\$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)



What is the competitive advantage ?

- **Why start in high school?**
 - Student can solo an aircraft at 16 and receive a private license at 17 years of age.
 - Allows student to assess if flying as a career would be something they would want to do before going to college.
 - Earn 5 Credits toward NMC Aviation Program after completing Ground School. Earn 10 Credits if Private License completed at Crosswinds Aviation.
 - Demand for Pilots due to potential pilot shortage.
 - Greatly reduces the cost of the Private Pilot License compared to the cost for that same rating in a collegiate program.
 - For programs like WMU, coming with a Private License will “Fast-Track” them into the Instrument rating. Getting them flying much earlier in their college career.
 - Demonstrates to potential employers someday the commitment and passion the student has for Aviation.

Michigan Aviation Colleges



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

