

Mar 2nd, 8:00 AM - 9:30 AM

Students' Perspective of Self-Guided Simulation Training on Process in the Initial Phase of Private Pilot Flight Training: A Preliminary Review

Samantha Harrison
Embry-Riddle Aeronautical University, harris39@erau.edu

Gary A. Carter
Embry-Riddle Aeronautical University, carte85F@erau.edu

Nicola M. O'Toole
Embry-Riddle Aeronautical University, paynen@erau.edu

Robert Thomas Ph.D.
Embry-Riddle Aeronautical University, thomasr7@erau.edu

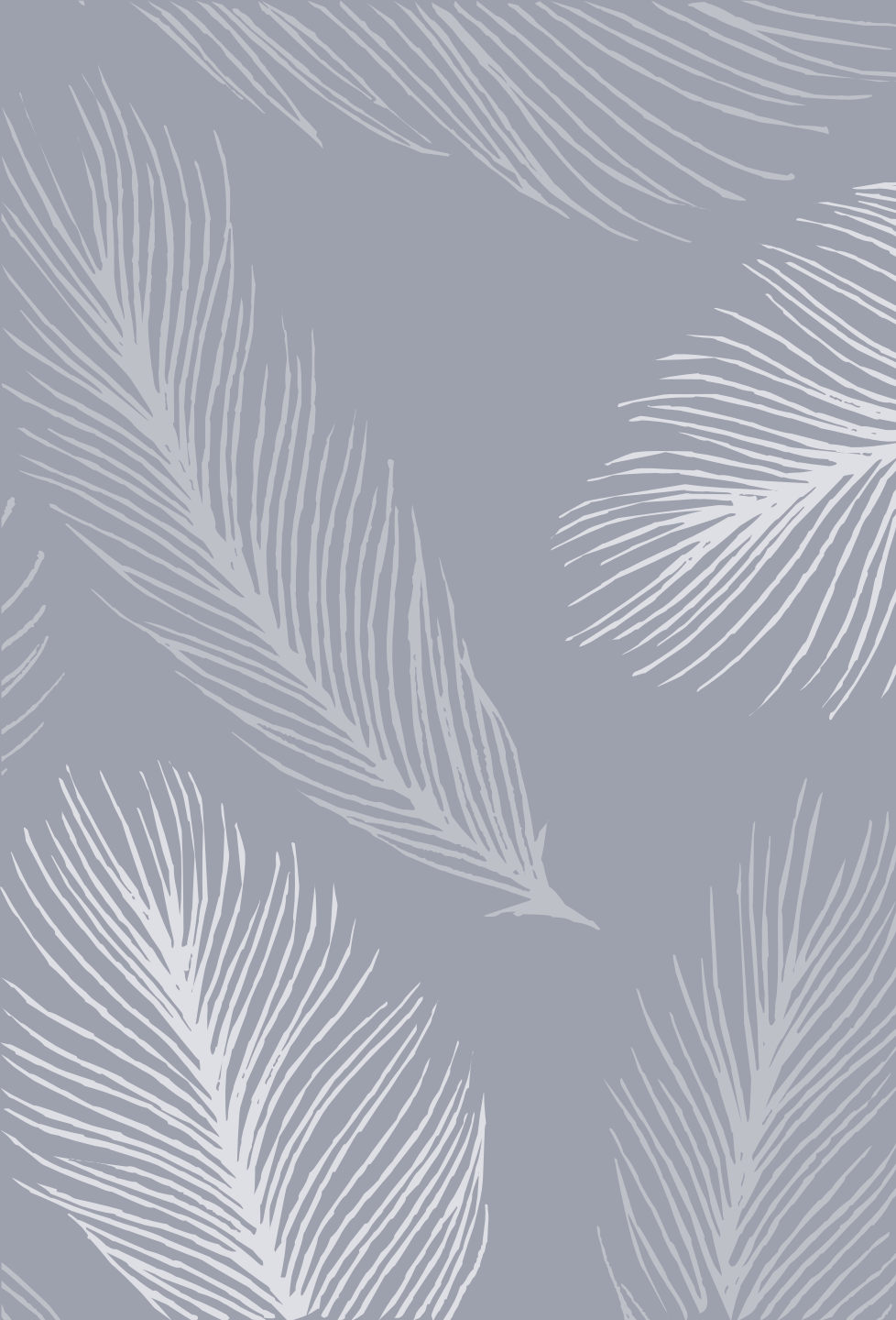
Follow this and additional works at: <https://commons.erau.edu/ntas>



Part of the [Curriculum and Instruction Commons](#), [Educational Methods Commons](#), and the [Other Education Commons](#)

Harrison, Samantha; Carter, Gary A.; O'Toole, Nicola M.; and Thomas, Robert Ph.D., "Students' Perspective of Self-Guided Simulation Training on Process in the Initial Phase of Private Pilot Flight Training: A Preliminary Review" (2020). *National Training Aircraft Symposium (NTAS)*. 1.
<https://commons.erau.edu/ntas/2020/presentations/1>

This Presentation is brought to you for free and open access by the Conferences at Scholarly Commons. It has been accepted for inclusion in National Training Aircraft Symposium (NTAS) by an authorized administrator of Scholarly Commons. For more information, please contact commons@erau.edu.



Students' Perspective of Self-Guided Simulation Training in the Initial Phase of Private Pilot Flight Training

- Samantha Harrison, Assistant Professor
- Nicola O'Toole, Assistant Professor
- Gary Carter, Assistant Professor
- Robert Thomas, Ph.D., Assistant Professor

EMBRY-RIDDLE
Aeronautical University™

What were the goals?



CREATE A TOOL THAT
WOULD BE ENGAGING FOR
STUDENTS.



DECREASE THE NUMBER OF
FLIGHT HOURS TO REACH
THE PHASE 1 ASSESSMENT



UTILIZE STUDENTS'
CURRENT TIME
COMMITMENTS
EFFECTIVELY.

Phase 1 Criteria



ENROLLED IN PRIVATE
PILOT OPERATIONS



LATE START



OVER 18 YEARS OLD



WILLING TO COMMIT TO 8
HOURS OF TIME IN THE
LEARNING CENTER



*STUDENTS WERE
COMPENSATED WITH 1
HOURS OF SIM TIME IN
THE FLIGHT DEPARTMENT

Phase 1 Method



Repeat for each lesson

Phase 1 Results

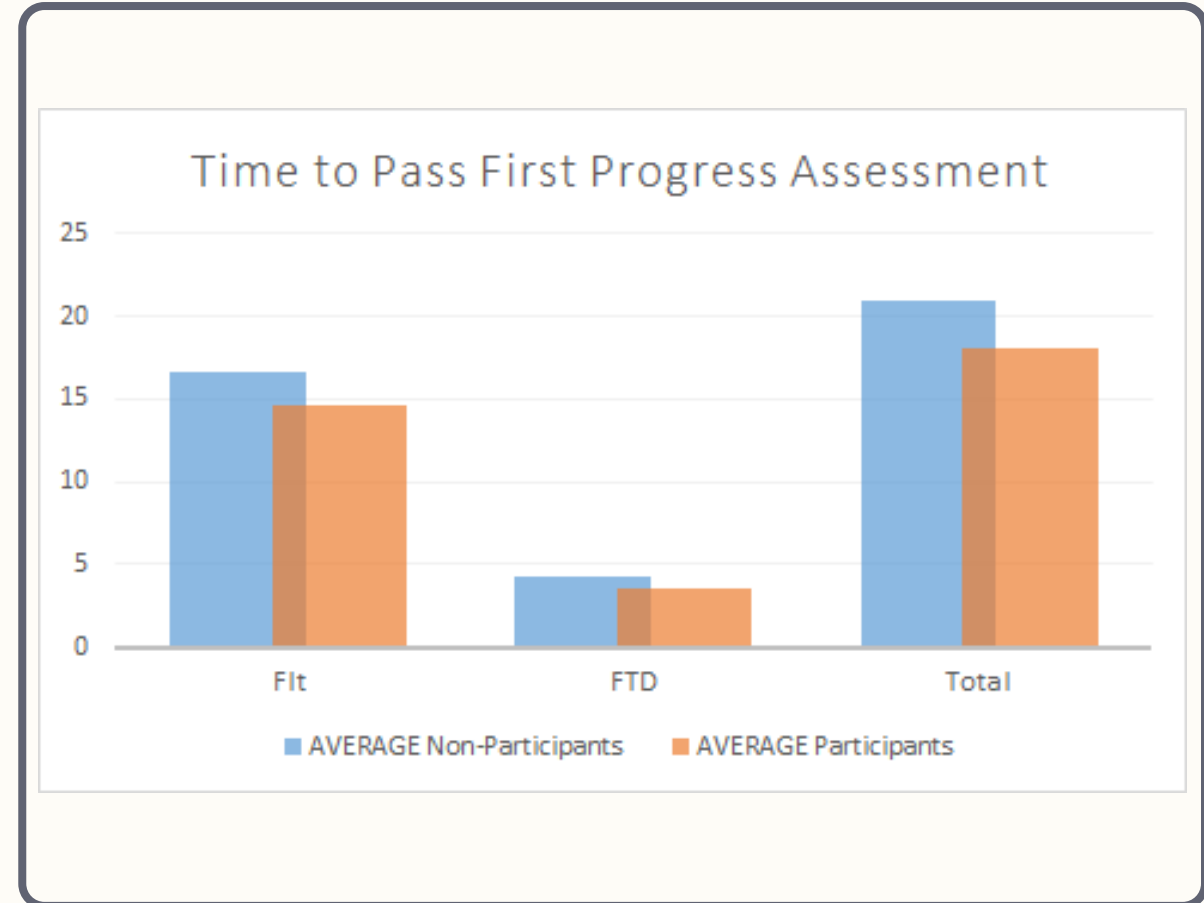
Student Perception of Ability

Average Perception Change By Lesson



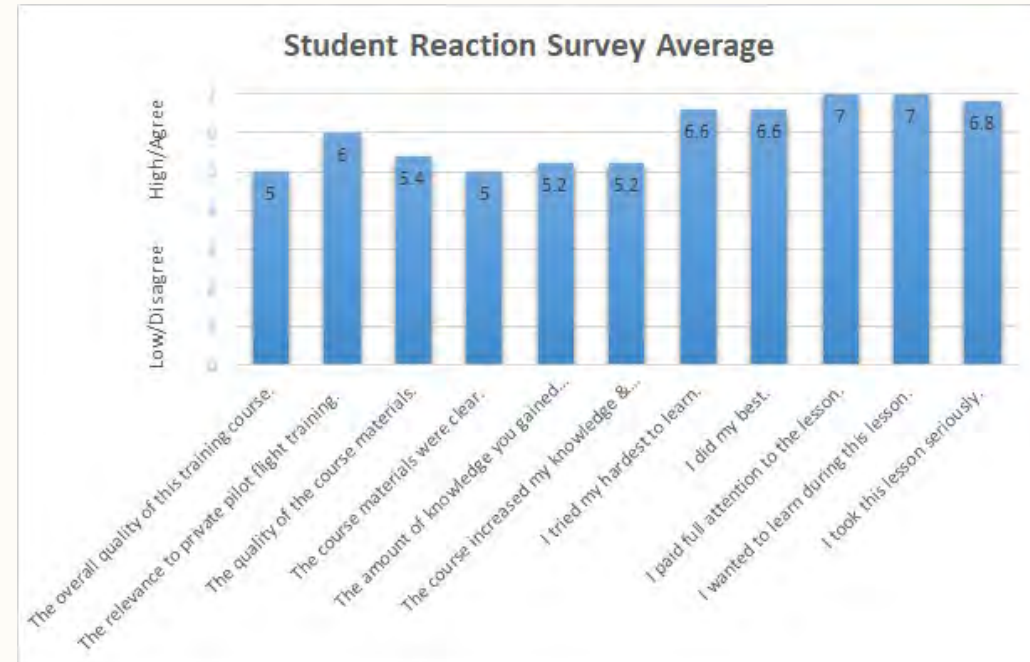
Phase 1 Results

Flight Time Impact



Phase 1 Results

Student Reaction
Survey to the Overall
Experience



Phase 1 Limitations



Hurricane Dorian



Many late starts were non-English speakers enrolled in an additional course



Small Sample Size

Moving Forward

- Phase 2 Starts this fall!
- Larger Sample Size Planned
- Collecting more Quantitative Data
- Improve Standardization of Instructor Evaluation
- Add Stall Lesson (based on current flight department data)

Samantha Harrison,
Assistant Professor

EMBRY-RIDDLE
Aeronautical University.

harris39@erau.edu

386-481-9060