

**Dr. Robert Fowler Jr.**  
Middle Tennessee State University  
Assistant Professor  
Aerospace  
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## **Education**

Doctor of Education, Assessment, Lrn & Stu Success. Middle Tennessee State Univ, 2025.

Master of Science, Aerontcs/Avia/Aerospc Sci Gen, Human Factors and Aviation Safety Management. Embry-Riddle Aeronautical University Worldwide, 2019.

Bachelor of Arts, Psychology General. University of Maine, 1982.

## **Professional Positions**

Assistant Professor, Middle Tennessee State University, Aerospace Department. (August 1, 2019 - Present).

## **Awards and Honors**

Phi Kappa Phi, The Honor Society of Phi Kappa Phi. (September 13, 2023).  
I was nominated and accepted into Phi Kappa Phi membership.

## **Teaching Experience**

AERO 1020, Theory of Flight, 10 courses.  
AERO 2201, Pro Pilot Flight Lab I, 3 courses.  
AERO 2230, Professional Pilot I, 17 courses.  
AERO 3170, Aviation Safety, 13 courses.  
AERO 3202, Cross-Country Flight Lab, 2 courses.  
AERO 3230, Crew Resource Management, 3 courses.  
AERO 3630, Intro to Air Traffic Control, 2 courses.

## **Teaching Innovation and Curriculum Development**

Added D2L Checklists to Courses. AERO 1020 Theory of Flight, AERO 2230 Pro Pilot 1, AERO 3170 Aviation Safety, & AERO 3230 Crew Resource Management. August 1, 2022 - Present.  
I have added D2L checklists to all of my courses to help students keep track of weekly assignments.

Using Microsoft Flight Simulator. AERO 1020 Theory of Flight & AERO 2230 Pro Pilot 1. April 14, 2021 - Present.

Instructional Enhancement Grant purchase of gaming computer and Microsoft Flight Simulator software to demonstrate aviation concepts in class.

I am using Microsoft Teams to increase class collaboration. AERO 1020 Theory of Flight, AERO 2230 Pro Pilot 1, AERO 3170 Aviation Safety, AERO 3230 Crew Resource Management. January 25, 2021 - Present.

Students would like more opportunities to work together on projects according to my Fall 2020 student evaluation results.

I am using Panopto to record and post class meetings for students who cannot attend. AERO 1020 Theory of Flight, AERO 2230 Pro Pilot 1, AERO 3170 Aviation Safety, AERO 3230 Crew Resource Management. August 24, 2020 - Present.  
All classes are recorded and posted in D2L for students to view as needed.

I use Screencast to record narrated PowerPoint presentations. AERO 1020 Theory of Flight, AERO 2230 Pro Pilot 1, AERO 3170 Aviation Safety. March 23, 2020 - Present.  
I recorded all of my PowerPoint presentations with narration using the Screencast application.

I use YouTube to record and post instructional videos. AERO 1020 Theory of Flight and AERO 2230 Pro Pilot 1. March 23, 2020 - Present.  
I record videos on my YouTube channel to teach flight planning skills and aircraft performance calculations. These skills are difficult to teach remotely without visual aids. Links to the YouTube videos are posted in D2L for the students to view as many times as needed.

I use Zoom for synchronous remote class delivery. AERO 1020 Theory of Flight, AERO 2230 Pro Pilot 1, AERO 3170 Aviation Safety, AERO 3230 Crew Resource Management. March 23, 2020 - Present.  
I deliver remote classes via the Zoom application.

I am using a quiz game app in my classes called Kahoot. AERO 1020 Theory of Flight, AERO 2230 Pro Pilot 1, AERO 3170 Aviation Safety, AERO 3230 Crew Resource Management. October 25, 2019 - Present.  
I have started using a quiz game app called Kahoot in my AERO 1020 Theory of Flight class and AERO 2230 ProPilot class to keep students engaged and enhance learning.

Revise Existing Course. MT Engage Summer Institute 2023. May 9, 2023 - May 10, 2023.  
Revision of AERO 3630 Crew Resource Management to include high impact education practice called "Beyond the Classroom Experience."

Revise Existing Course. AERO 1020 Theory of Flight. January 1, 2021 - October 1, 2021.  
Developed asynchronous online AERO 1020 for Spring 2022 schedule.

## Publications

### Journal Article (Published)

Fowler, R., Lundberg, A. R., Siao, D. H., Smith, C. J. (2023). Women and Minorities in Commercial Aviation: A Quantitative Analysis of Data from the United States Bureau of Labor Statistics. *International Journal of Aviation, Aeronautics, and Aerospace*, 10(2).  
<https://commons.erau.edu/ijaaa/vol10/iss2/2/>

Fowler, R., Siao, D. (2022). Native Language Effects on Flight Training Performance. *International Journal of Aviation, Aeronautics, and Aerospace*, 9(4).  
<https://commons.erau.edu/ijaaa/vol9/iss4/3>

Smith, C. J., Fowler, R., Lundberg, A. R., Georgiou, A. M. (2022). A Literature Review of Aviation Diversity. *Aviation Technician Education Council Journal*, 44(2), 6-16.  
<https://www.atec-amt.org/journal-archive.html>

Fowler, R., Mathews, E., Lynch, J., Roberts, J. (2021). Aviation English Assessment and Training. *Collegiate Aviation Review International*, 39(2), 26-42.  
<http://ojs.library.okstate.edu/osu/index.php/CARI/article/view/8128/>

## Presentations

Fowler, R. (Primary Investigator), University Aviation Association Conference 2024, "Women and Minorities in Collegiate Aviation: What Factors Lead to Enrollment and Persistence," University Aviation Association, Hilton Memphis, Memphis, TN, United States of America. (September 26, 2024).

Fowler, R., Research and Developments in Aviation Communications, "Native Language Effects on Flight Training Performance," International Civil Aviation English Association, Hong Kong Polytechnic University, Hong Kong, China (Mainland). (May 16, 2024).

Fowler, R. (Primary Investigator), 76th Annual UAA Education Conference & Expo, "Native Language Effects on Flight Training Performance," University Aviation Association, St. Petersburg, Florida Hilton Bayside, St. Petersburg, FL, United States of America. (September 27, 2023).

Fowler, R. (Co-Presenter), Lundberg, A. R. (Co-Presenter), University Aviation Association Conference 2022, "Women and Minorities in Aviation," University Aviation Association, The Antlers Wyndham Hotel, Colorado Springs, Colorado Springs, CO, United States of America. (October 7, 2022).

Fowler, R., University Aviation Association 2021 Memphis Conference, "Aviation English Assessment and Training," University Aviation Association, Memphis Hilton, Memphis, TN, United States of America. (October 8, 2021).

Fowler, R. (Lead Presenter), University Aviation Association 2020 Virtual Conference, "English Language Proficiency and Flight Training Performance," University Aviation Association, Virtual Presentation on EZTalks, Memphis, TN, United States of America. (October 1, 2020).

## Contracts, Fellowships, Grants and Sponsored Research

Fowler, R., "MTSU Instructional Enhancement Grant," Sponsored by Middle Tennessee State University, Middle Tennessee State University, \$620.00. (April 14, 2021).  
Teaching

## Media Appearances and Interviews

"FAA's safety measures at BNA similar to precautions used at Reagan National Airport before deadly crash," WSMV Nashville Channel 4 News. (January 31, 2025).

Middle Tennessee State University aerospace professor Robert Fowler said flying on a commercial plane is the safest form of transportation. Airplane crashes are very rare, compared to car crashes that are reported across the country every day.

"Trump Misleads on D.E.I. Policies in Blaming Biden for Plane Crash," New York Times. (January 30, 2025).

President Donald Trump blamed diversity goals of his Democratic predecessors and the Federal Aviation Administration on Thursday as he updated the public about the deadly collision of an Army Black Hawk helicopter and a Delta regional jet over the Potomac River. He suggested that efforts to hire more people with disabilities and diversify the ranks of the F.A.A. were to blame for the accident late Wednesday that killed 67 people.

"Plane Returns to BNA After Hitting Birds," Nashville News Channel 4. (November 15, 2023).

This is a Nashville News Channel 4 story about a Spirit Airlines flight that was forced to return to the Nashville International Airport after striking a bird.

"Air Traffic Control Shortage at BNA," Nashville News Channel 5. (September 6, 2023).  
Interviewed for a television news story about the air traffic control shortage.

"Denver Airport's \$40 Million "Equity Center" is Novel, but Will it Help Close Hiring Gaps in the Aviation Industry," Denver Post. (September 4, 2023).  
Denver Airport will use empty space on Level 4 of the Westin Hotel, one floor from the plaza, to house the new Center of Equity and Excellence. I was asked for my opinion about whether or not this will help improve diversity in the aviation industry.

"NTSB determines cause of crash that killed Gwen Shamblin, Brentwood church members," Nashville News Channel 4. (March 22, 2023).  
Contribution to local news station story

"The Way Down," HBO Max. (April 28, 2022).  
I was featured in the HBO Max documentary film "The Way Down" as an aviation consultant commenting on the Citation Jet accident that took the lives of the Remnant Fellowship leadership.

"The NTSB released its preliminary report of a plane crash on Percy Priest Lake in Smyrna," News Channel 5. (June 16, 2021).  
The attached file is a recording of the News Channel 5 story about the crash of the Remnant Fellowship Citation in Percy Priest Lake on May 29, 2001

## **Research Activity (*In-Progress*)**

"Women and Minorities in Collegiate Aviation: What Factors Lead to Enrollment and Persistence" (In Preparation). (January 1, 2024 - December 31, 2024).  
The purpose of this research is to determine the experiences that influence women and minorities to enroll in a collegiate aviation program and the factors that have helped them persist and succeed. According to the United States Bureau of Labor Statistics, the percentage of women and minorities working in the aviation industry is relatively low compared to their participation rates in the total workforce of the United States. Increasing the number of women and minorities working in the aviation industry must begin with increasing their numbers in the nation's flight schools and collegiate aviation programs.

## **Faculty Development Activities Attended**

Continuing Education Program, "Assessment, Learning, and Student Success Doctoral Program," Middle Tennessee State University, Murfreesboro, TN, United States of America. (January 1, 2020 - May 1, 2025).  
I have 52 credit hours of the 60 credit hours required for the Ed.D. in Assessment, Learning. I have started the dissertation process, and my projected graduation is Spring 2025.

Workshop, "MT Engage Summer Institute 2023," MT Engage, Murfreesboro, TN, United States of America. (May 9, 2023 - May 10, 2023).  
All faculty interested in teaching as part of the MT Engage program should complete this form to have their course or course section approved. Once approved, the course/section will have the MT Engage attribute attached on RaiderNet to identify it as part of the MT Engage program to students and advisors. This will also allow for assessment data to be collected. Course/section will have the MT Engage attribute attached on RaiderNet to identify it as part of the MT Engage program to students and advisors. This will also allow for assessment data to be collected.

Workshop, "Teaching Multilingual Students," Learning, Teaching, & Innovative Technologies Center, Murfreesboro, TN, United States of America. (November 1, 2022).

Workshop, "Teaching TRIOs," Middle Tennessee State University College of Basic & Applied Sciences, Murfreesboro, TN, United States of America. (October 9, 2020 - June 26, 2021).  
TRIOs: A Time-sensitive, Reciprocal, Inclusive, and Operative process for peer observation intended to respect all teaching practice while promoting dialogue and innovation with regard to teaching in CBAS departments.

Continuing Education Program, "AASCU/APLU Student Support Service - Transitioning from Emergency Remote Learning to Intentionally Designed Online Pedagogy," Gates Foundation Grant, Murfreesboro, TN, United States of America. (February 5, 2021 - March 12, 2021).  
Training to develop a fully online course that was previously remote. Faculty selected participate in a program of 6 to 8 weeks in duration. Each faculty member will spend about 5 to 8 hours each week. This is a cohort program in which six faculty members will join similar teams of faculty from 4 to 5 other institutions.

Workshop, "Utilizing Checklists in D2L: Promoting Accountability and Organization in Your Online and Remote Courses," MTSU Learning, Teaching & Innovative Technologies Center, Murfreesboro, TN, United States of America. (February 17, 2021).  
The D2L Checklist tool enables you to create checklists to highlight important aspects of your class. Checklists hold students accountable while helping them stay organized. This workshop provides a walkthrough of D2L checklists, including how to create them, and highlights the benefits to both students and faculty in online, hybrid, remote, web-assisted, and traditional classrooms.

Workshop, "Writing Winning Proposals to NSF – Writing for the reviewers," MTSU Office of Research and Sponsored Programs, Murfreesboro, TN, United States of America. (February 9, 2021).

Workshop, "Searching for Funding Opportunities: Grant Forward," MTSU Office of Research and Sponsored Programs, Murfreesboro, TN, United States of America. (January 22, 2021).

## **Licensures and Certifications**

Remote Pilot Certificate, Federal Aviation Administration. (December 1, 2016 - Present).

Commercial Pilot Single and Multiengine Land; Instrument Airplane, Federal Aviation Administration. (March 26, 2014 - Present).  
I am a FAA certificated commercial pilot with 6,700 hours of total flight time.

Restricted Radio Operator Permit, Federal Communications Commission. (December 13, 2008 - Present).

Certificated Flight Instructor, Federal Aviation Administration. (April 15, 2023 - May 31, 2025).  
I am a FAA Certificated Flight Instructor for airplane single and multiengine land; instrument airplane.

FAA Third Class Medical Certificate, Federal Aviation Administration. (May 26, 2021 - May 31, 2023).

## **Professional Memberships**

International Civil Aviation English Association. (November 1, 2023 - Present).

Professional Asian Pilots Association. (May 1, 2023 - Present).

University Aviation Association. (October 1, 2019 - Present).

Experimental Aircraft Association. (February 1, 2018 - Present).

National Association of Flight Instructors. (February 1, 2018 - Present).

Aircraft Owners and Pilots Association. (January 1, 2002 - Present).

## **University Service**

Faculty Advisor, Professional Asian Pilots Association. (March 23, 2023 - Present).

Faculty Advisor, Alpha Eta Rho. (August 1, 2022 - Present).

I am the faculty advisor to Alpha Eta Rho which is an aviation fraternity.

Faculty Advisor, Asian Students' Association. (March 25, 2020 - Present).

Act as a Faculty Advisor to the leaders of the Asian Students' Association. Attend meetings and events as needed.

University Committee Chair, Campus Non-violence Committee. (June 1, 2023 - May 31, 2025).

University Committee Member, Academic Misconduct Committee. (June 1, 2023 - May 31, 2025).

Review alleged cases of academic misconduct

Chairperson, Aerospace Pro Pilot Tenure Track Faculty Search Committee. (August 1, 2023 - June 30, 2024).

University Committee Member, MTSU Faculty Senate Awards Committee. (August 1, 2021 - May 31, 2023).

University Committee Member, MTSU Faculty Senate Public Service Committee. (August 1, 2021 - May 31, 2023).

Chairperson, Aerospace Pro Pilot Tenure Track Faculty Search Committee. (August 1, 2022 - May 1, 2023).

Chair, Aerospace Safety Director Search Committee. (February 15, 2022 - July 31, 2022).

I was selected to lead the search committee for a new Director of Aerospace Safety.

Search Committee Member, Aerospace Tenure Track Faculty Search Committee 2021. (June 1, 2021 - July 31, 2022).

Search Committee Member, Aerospace Department Chairperson Search Committee. (January 22, 2021 - July 31, 2021).

Review applications, attend interviews, and meet with other members of the committee to evaluate and select candidates for the full-time Aerospace Department Chairperson position opening.

Search Committee Member, Aerospace Tenure Track Faculty Search Committee 2020. (September 1, 2020 - October 31, 2020).

Review applications, attend interviews, and meet with other members of the committee to evaluate and select candidates for the full-time tenure track faculty position opening(s) in the Aerospace Department.

## **Professional Service**

Committee Member, University Aviation Association Education Committee, Memphis, TN. (November 1, 2020 - Present).  
Attend UAA Education Committee meetings as needed.

Committee Member, University Aviation Association Safety Committee, Memphis, TN. (November 1, 2020 - Present).  
Attend UAA Safety Committee meetings as needed.

Interaction with Industry, National Association of Flight Instructors Part 141 Special Interest Group Moderator, 3101 East Milham Ave, MI. (September 25, 2022 - January 26, 2025).  
I moderate a monthly virtual discussion group for collegiate Part 141 flight instructors.

## **Public Service**

Participant, Nashville Metro Human Relations Committee, Nashville, TN. (December 7, 2020).  
I was invited to participate in a panel discussion entitled "Just Conversations" that took place at the Nashville Public Library on December 7, 2020.

Moderator, MT Engage, Murfreesboro, TN. (September 23, 2021).  
I was asked to moderate a panel discussion concerning how crises such as the COVID-19 pandemic disproportionately affect historically marginalized groups and lessons learned from social justice organizing and working with diverse communities. Panel members included: Joseph Gutierrez, Executive Director of API-Mid TN, Chandra Story (PhD), MTSU professor of Public Health and TN Healthcare & Disparity Task-force, Joyce Washington (MASC, MBA), Social Justice Advocate from the Weakley County Reconciliation Project, Ay. Andrae Crismon (JD), Volunteer Lawyers Program Director, Legal Aid Society of Middle Tennessee & the Cumberland, and Rep. Harold Love, Jr. (PhD), State Representative of District 58.