

# just the facts



## ACADEMIC FACTS

# 10

AVERAGE CLASS SIZE

- ▶ Student to teacher ratio: 3 to 1
- Our faculty and curriculum are balanced between academic and professional training; many of our faculty members are scholars with doctoral degrees and active research agendas, while others bring decades of experience as safety professionals in the government and/or private sector

## INDUSTRY PARTNERS

ERAU PRESCOTT PROUDLY COLLABORATES WITH INDUSTRY PARTNERS SUCH AS:

- ▶ Freeport-McMoRan Copper and Gold
- ▶ Discount Tire
- ▶ Prescott Municipal Airport
- ▶ Drake Cement
- ▶ Sturm, Ruger & Co., Inc.
- ▶ MI Windows and Doors
- ▶ Pure Wafer

## We Pay for Your Travel to Present at Professional Meetings

We support graduate students in all endeavors of their professional development. Students receive financial assistance when they present their research projects at professional meetings. Here is a selection of events that students and/or faculty attend on a regular basis:

### CONFERENCE & EXPOS

- ▶ Safety (American Society of Safety Professionals ASSP)
- ▶ AIHce (American Industrial Hygiene Association Conference & Expo)
- ▶ ISASI (International Society of Air Safety Investigators annual meeting)
- ▶ SIOP (Society for Industrial & Organizational Psychology annual conference)
- ▶ Arizona Health & Safety Summit (ASSP Arizona Chapter)
- ▶ Work Stress and Health (American Psychological Association)
- ▶ Business Aviation Safety Summit (Flight Safety Foundation)
- ▶ International Symposium on Aviation Psychology
- ▶ Transportation Research Board Annual Meeting
- ▶ ADOSH Safety Summits



### Peiwen Chen

M.S. in Safety Science '18, discusses the "Effect of Language on Flight Performance." in a poster presentation at AZASSE 2017.

## COLLEGE OF AVIATION

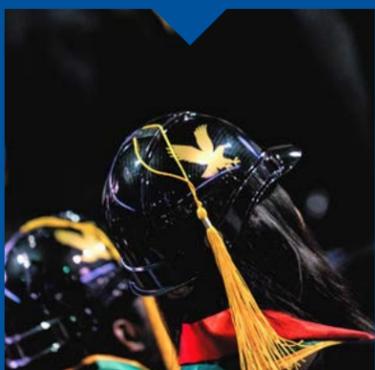
- ▶ Residential & Executive Master of Science in Safety Science

## DID YOU KNOW?

OVER

# 5000

EMPLOYEES WERE FATALLY INJURED ON THE JOB IN 2016



# 95%

FIND A JOB WITHIN THEIR FIRST YEAR OF GRADUATING

*Human error contributes to approximately 70% of aviation accidents and there is a cost of over \$1 billion to U.S. residents as a result of airplane accidents.*

The U.S. Department of Labor estimates employers pay \$1 billion per week in workers' compensation due to workplace hazards. These staggering numbers motivate employers to hire valuable, experienced safety professionals to cultivate new and effective safety models for their businesses. At Embry-Riddle, safety is no accident. We guide you to become an industry safety specialist, utilizing practical training, research, evidence, and analysis to create efficient safety systems for your future career.

## Why Study Safety at Embry-Riddle Prescott?

- ▶ Get the most return on your investment! ERAU Prescott MSSS graduates have a 95% rate of finding jobs in their field within one year of graduating. Employers include Amazon, Boeing, Delta Airlines, Honeywell, Intel, and many more!
- ▶ The Master of Science in Safety Science curriculum is approved by the Board of Certified Safety Professionals (BCSP). Graduates receive *Graduate Safety Practitioner (GSP)* designation which includes a waiver of the *Associate Safety Professional (ASP)* examination requirement on the way to becoming a *Certified Safety Professional (CSP)*. These credentials allow our graduates to command higher salaries.
- ▶ Our curriculum meets the standards of the Aviation Accreditation Board International (AABI), ensuring that students will achieve and maintain a level of performance, integrity, and quality consistent with professional safety principles.
- ▶ ERAU has the largest university-owned aircraft accident investigation lab in the entire United States, and has been a major destination for students traveling to the United States to study safety science from abroad.
- ▶ The Aviation Safety and Security Archives present students with the opportunity to get their hands on rare historic original aircraft accident investigation documents.



### Olalekan "Lekan" Aponmade,

M.S. in Safety Science '18

Recipient of the ICA/ADOSH Chairman's Special Recognition Award for Best Up and Coming Safety Professional 2018

## Our Faculty

### DR. TIMOTHY HOLT

*Dean, College of Aviation*  
Ph.D. in Educational Leadership from North Central University; Master of Aeronautical Science from Embry-Riddle Aeronautical University



Dr. Holt teaches in the Applied Aviation Sciences Department. Prior to coming to Embry-Riddle, he served a twenty-two-year career in the United States Navy, retiring as a Chief Petty Officer. A Naval Aircrewman while on active duty, he operated on both fixed wing (P-3 Orion) and rotary wing (MH-60S KnightHawk) aircraft, logging over 2,500 hours as both a Flight Instructor and Evaluator.

### EDWARD COLEMAN

*Chair, Department of Safety Science; Director, Robertson Safety Institute*



B.S. from USAF Academy; Master of Aeronautical Science from Embry-Riddle Aeronautical University

Mr. Coleman has been involved with aviation and safety for nearly 30 years. He started his career as an Air Force Officer and pilot and has held safety positions at multiple levels. Following his Air Force career, Mr. Coleman was a demonstration pilot for Cessna Aircraft Company showcasing many of the company's newest jets worldwide.

### DR. MAXWELL FOGLEMAN

*Graduate Academic Advisor*  
Ph.D. in Industrial Engineering from Texas Tech University



Dr. Fogleman has been on the faculty since 2001. He teaches graduate courses in ergonomics, human factors, epidemiology, statistics, system safety, and occupational safety. His areas of research are ergonomics, biomechanics, and occupational epidemiology.

### DR. BRENT BOWEN

*Program Chair, Aeronautics*  
Ph.D. in Higher Education from Oklahoma State University; M.B.A. from Oklahoma City University



Dr. Bowen is the former Dean of the College of Aviation. His Federal Aviation Administration certifications include Airline Transport Pilot, Certified Flight Instructor with Gold Seal, Advanced-Instrument Ground Instructor, Aviation Safety Counselor, and Aerospace Education Counselor. Previously, Dr. Bowen was Department Head of Aviation Technology within the Purdue University College of Technology. Dr. Bowen's research on the development of the national Airline Quality Rating is viewed by more than 75 million people each year and is annually featured on national newscasts, and in numerous national and international media.

### DR. RUSTIN REED

Ph.D. in Industrial Hygiene from the University of Arizona



Dr. Reed is an innovative leader in industrial health and safety. His research interests include evaluation of safety considerations in respirable crystalline silica, diesel exhaust, noise and heat exposures. He is also involved in the development of new monitoring methods for silica and heat, as well as the application of machine learning techniques and leadership training to improve safety.

### WILLIAM D. WALDOCK

Master of Aeronautical Science from Embry-Riddle Aeronautical University



Professor Waldo is an internationally-recognized expert in aviation safety and safety education. He is a private pilot, a 30-year veteran aircraft accident investigator, and a prolific author and researcher in aviation safety, accidents, and survivability. He is a retired officer in the U.S. Coast Guard. Has been investigating maritime and aviation accidents for almost 40 years. He currently serves as president of the Arizona chapter of the International Society of Air Safety Investigators.

*Safety and accident prevention is not to be taken for granted. It requires professionals trained in recognition, evaluation, and control of multi-layered safety hazards. Our Safety Science graduate students obtain the technical and managerial knowledge and skills necessary to practice occupational health and safety in a variety of industries: manufacturing, mining, construction, energy, oil and gas, insurance, consulting, and health care. In addition, our expertise in aviation safety is internationally recognized, and our faculty are frequently consulted by national media.*



## One Degree, Two Delivery Methods

The Embry-Riddle Prescott campus offers the Safety Science master's in both the campus-based and in the limited-residency "Executive" format.

- ▶ Our residential Master of Science degree program offers a full-time, comprehensive study in safety, as well as the complete Embry-Riddle student experience.
- ▶ Our flexible Executive Master of Science program allows students to study from the comfort of their home, at their own pace. Travel to attend hands-on training experiences at the ERAU Prescott, Arizona campus is required only three weekends per semester.

The 36-credit hour program prepares students for specialized positions

in a rapidly growing, highly paid, and exciting field, and our students receive job placement assistance upon graduation. Our program is both accredited by the Aviation Accreditation Board International (AABI) as well as approved by the Board of Certified Safety Professionals as a Qualified Academic Program – meaning that, upon completion, students are designated a *Graduate Safety Practitioner* and have made progress toward the national *Certified Safety Practitioner* certification.

Residential students can complete the program in 1.5 - 2 years; Executive program students will take three years. Students will qualify for jobs such as general or aviation safety manager, occupational health and safety engineer,

industrial hygienist, and aircraft accident investigator. Graduates will be able to provide leadership, training, and expert consultation in safety implementation and compliance issues involving OSHA, MSHA, EPA, DOE, DOD, FAA, NTSB, state health, and workplace standards. Our graduates are prepared for service in aviation/aerospace, military, and numerous other private sector industries.

Department of Safety Science including the faculty offices, classrooms, and labs are housed conveniently in the Robertson Aviation Safety Center at the Prescott campus, promoting daily interaction with other students and faculty.

# how does it compare?

## ERAU's Safety Science graduate program is unlike any other.

- ▶ Embry-Riddle puts you in position to find success after graduation. Our faculty and alumni networks help connect you to high-impact internships, valuable consulting opportunities, and lucrative careers. Safety Science graduates have been employed by companies such as Boeing, Delta Airlines, Amazon, Honeywell, Freeport-McMoRan, Discount Tire, John Deere, Granite Construction, and many more.
- ▶ Our professional and experienced faculty brings the academic principles of safety to life with inspired workshops and one-on-one guidance. Explore every facet of safety, from concept to implementation, in preparation for your future in safety science.
- ▶ Embry-Riddle delivers to its students a hands-on, practitioner oriented program that provides you with practical experience within relevant industry environments upon graduating.
- ▶ Students become versed in data analysis to ensure they are equipped with the tools necessary to recognize and resolve potential safety hazards before they occur.
- ▶ We have specifically tailored our limited-residency graduate program to fit your schedule, allowing you to earn your advanced degree without putting your life, career, or responsibilities on hold.
- ▶ Our students are active participants in chapters of the American Society of Safety Professionals (ASSP), and the International Society of Air Safety Investigators (ISASI), which affords them access to professional conferences and networking opportunities.
- ▶ Safety Science graduate students enjoy the on-campus *Robertson Aircraft Accident Investigation Laboratory*, the only scenario-based accident investigation facility in the nation, allowing for unique field-analysis that puts safety investigation in your hands.
- ▶ Prescott is ideally located near major industry partners, including Freeport-McMoRan copper mines, Prescott Municipal Airport, Drake Cement Plant, Ruger Firearms Manufacturer, and many others. Curriculum is taken out of the classroom and into the workplace as students are given insight into the real-world conditions of these facilities.
- ▶ 325 days of beautiful sunshine maximizes opportunities to conduct frequent outdoor accident investigation training, in addition to industrial hygiene exercises.
- ▶ Here at Embry-Riddle, innovation is the expectation. Safety Science students will have the opportunity to cultivate their own comprehensive capstone project, allowing the student to make groundbreaking advances in safety science within their own unique area of expertise. Capstone projects can be performed in partnership with your employer and help to revolutionize the industry approach to real-world problems.



VIEW DEGREE REQUIREMENTS



## SAFETY AND SECURITY ARCHIVES

### SHARING KNOWLEDGE AND THE HISTORY OF AVIATION SAFETY

For anyone interested in the history of aviation safety, the Archives is a repository for unique or rare, primary materials relating to aviation safety and security. These collections are available to university users and outside researchers.

In addition to being available on-site, a growing number of documents from the collections can be accessed online through the ASASA Digital Library. The Digital Library contains documents including thousands of photographs, letters, reports, and other items, most of which offer full text.

## LABS

### INDUSTRIAL HYGIENE LABORATORY

Students will have the ability to gain first-hand experience using state-of-the-art equipment to evaluate a variety of hazardous environmental agents and factors.

### ERGONOMICS LABORATORY

The various types of tests and equipment found in the Ergonomics Laboratory are devoted to helping students understand and evaluate the functional parameters of the human body in the workplace. The lab houses the Vicon Motion Capture and Measurement System.

### ROBERTSON AIRCRAFT ACCIDENT INVESTIGATION LABORATORY

The Robertson Aircraft Accident Investigation Laboratory is the most complete facility of its kind in the country — and the only scenario-based accident investigation facility available for use by students at any university.

## Professional Association Student Chapters

### American Society of Safety Professionals (ASSP)

- ▶ National membership provides over \$8,000 in value of OSHA/MSHA/DOT/EPA complimentary certified training
- ▶ Networking opportunities with other safety professionals
- ▶ Grants/Scholarships
- ▶ Technical Safety Workshops



### International Society of Air Safety Investigators (ISASI)

- ▶ The members of this ERAU student chapter gather and discuss information to further the field of aircraft accident investigation and aviation safety.



## What Our Alumni/Current Students Have to Say

*“What I appreciated most is the accessibility of my instructors. It supported my drive to learn more.... Completing the master's program has helped me realize my inner potential as an academic professional. I excelled in all of my studies and achieved recognition by various professional organizations for the hard work and dedication that I invested in each of my classes and extra-curricular activities.*

— MASON SALDANA '17

*The Safety Science program at Embry-Riddle Prescott prepared me well for joining the aviation safety industry. I now know how to deal with raw data and extrapolate valuable information. In spring of 2018, I completed a Safety Management Systems internship with Delta Airlines in their Corporate Safety Department. The exercises we did in class on how to write and present a proper analysis report for a safety-related issue turned out to be an important skill to have during my internship.*

— SHIH-JUN LIN '18

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

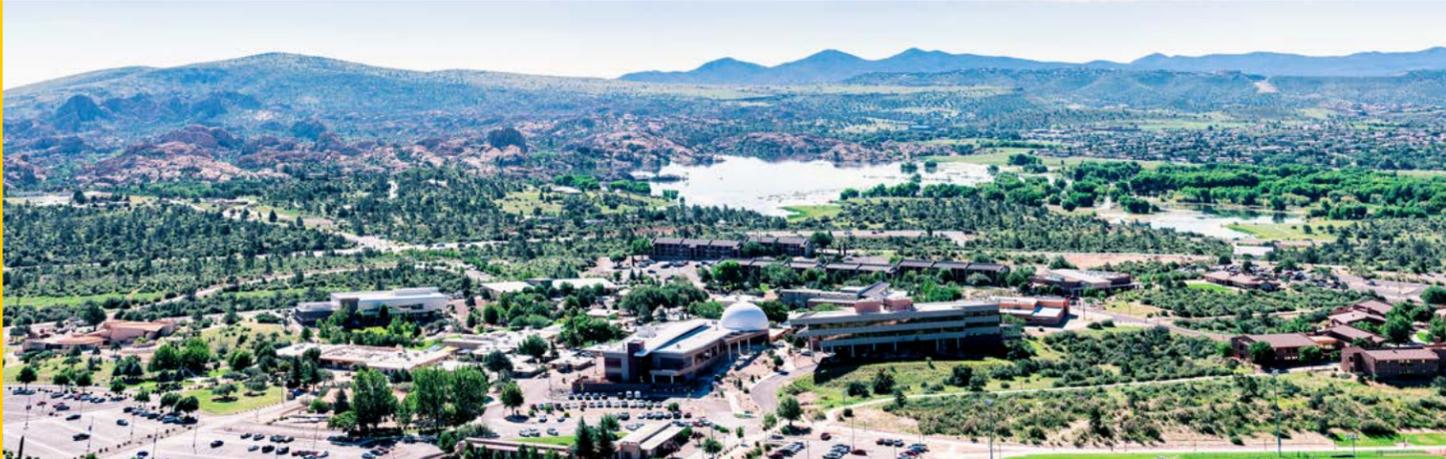
# LAUNCH

GRADUATE PROGRAMS



*Residential & Executive*  
Master of Science in Safety Science

Arizona Campus



next steps

### CONTACT US

Getting in touch with us is easy!

Call 800.888.3728 or  
email us at [prescottgradinfo@erau.edu](mailto:prescottgradinfo@erau.edu)  
Check out our website [prescott.erau.edu](http://prescott.erau.edu)

### HOW TO APPLY

A complete application for domestic students consists of the following:

- Application form
- Resume
- Statement of goals and objectives
- 3 letters of recommendation
- Official transcripts from all colleges attended prior to Embry-Riddle
- Submitting GRE scores is optional

Contact us to get the application fee waiver code!

File your FAFSA at [WWW.FAFSA.ED.GOV](http://WWW.FAFSA.ED.GOV)  
Our school code on the FAFSA is 001479

Scholarships and Graduate Assistantships are available.  
Contact us for more information!

### INTERNATIONAL STUDENTS

International students whose primary language is not English need to submit

1. Proof of English language proficiency (79 on the iBT TOEFL or 6 on the IELTS). English language training is available at the Embry-Riddle Language Institute for many students not meeting the minimum TOEFL or IELTS scores.
2. Course-by-course foreign credential evaluation. If your bachelor's degree is from a university that is not regionally accredited with the Higher Learning Commission in the United States, you will need to have your transcripts evaluated by a third party agency such as WES or ECE.
3. Proof of funding is required for the first year of study.

### VISIT US!

Tour the campus! Meet with admissions! Meet with faculty!  
Talk to Financial Aid! Sit in on a class!

Email [prescottgradinfo@erau.edu](mailto:prescottgradinfo@erau.edu) to schedule a "graduate campus tour" or call 800.888.3728

**EMBRY-RIDDLE**  
Aeronautical University  
PRESCOTT, ARIZONA

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APPLY NOW!

