

EMBRY RIDDLE AERONAUTICAL UNIVERSITY

Jan 2023

Brief on the status of ERAU University with a focus on college programs and degrees available in Hawaii

For

State of Hawaii Workforce development Council - Sector Strategies & Career Pathway Committee

By

Dr. Linda Vee Weiland Program Coordinator Bachelor of Science in Aeronautics degree College of Aviation ERAU Worldwide

- ERAU Locations
 - Headquarters is in Daytona Beach
 - Daytona Beach, FL Campus <https://daytonabeach.erau.edu/>
 - Prescott, AZ Campus <https://prescott.erau.edu/>
 - Worldwide Campus <https://worldwide.erau.edu/>

EMBRY-RIDDLE

Worldwide | Oahu

Jan 2023

<https://worldwide.erau.edu/locations/schofield-barracks>

<https://worldwide.erau.edu/locations/honolulu>

<https://worldwide.erau.edu/locations/kaneohe>

<https://worldwide.erau.edu/online-learning>



This is ERAU

- Embry-Riddle offers a first-rate education to recent high school graduates, working adults, active service members, veterans, classroom students, and online learners.
- The Embry-Riddle Aeronautical University we know today is the product of a long and prestigious history that started in Florida in 1925.
- Now reaches globally with over 140 locations
- Seven primary fields of study
 - Aviation
 - I will focus on this College from the Worldwide perspective and opportunities in Hawaii to attend classes with ERAU- Emphasis will be place on the Bachelor of Science in Aeronautics degree
 - Applied Sciences
 - Space
 - Business
 - Computers and Technology
 - Engineering
 - Safety, Security and Intelligence

ERAU Vision

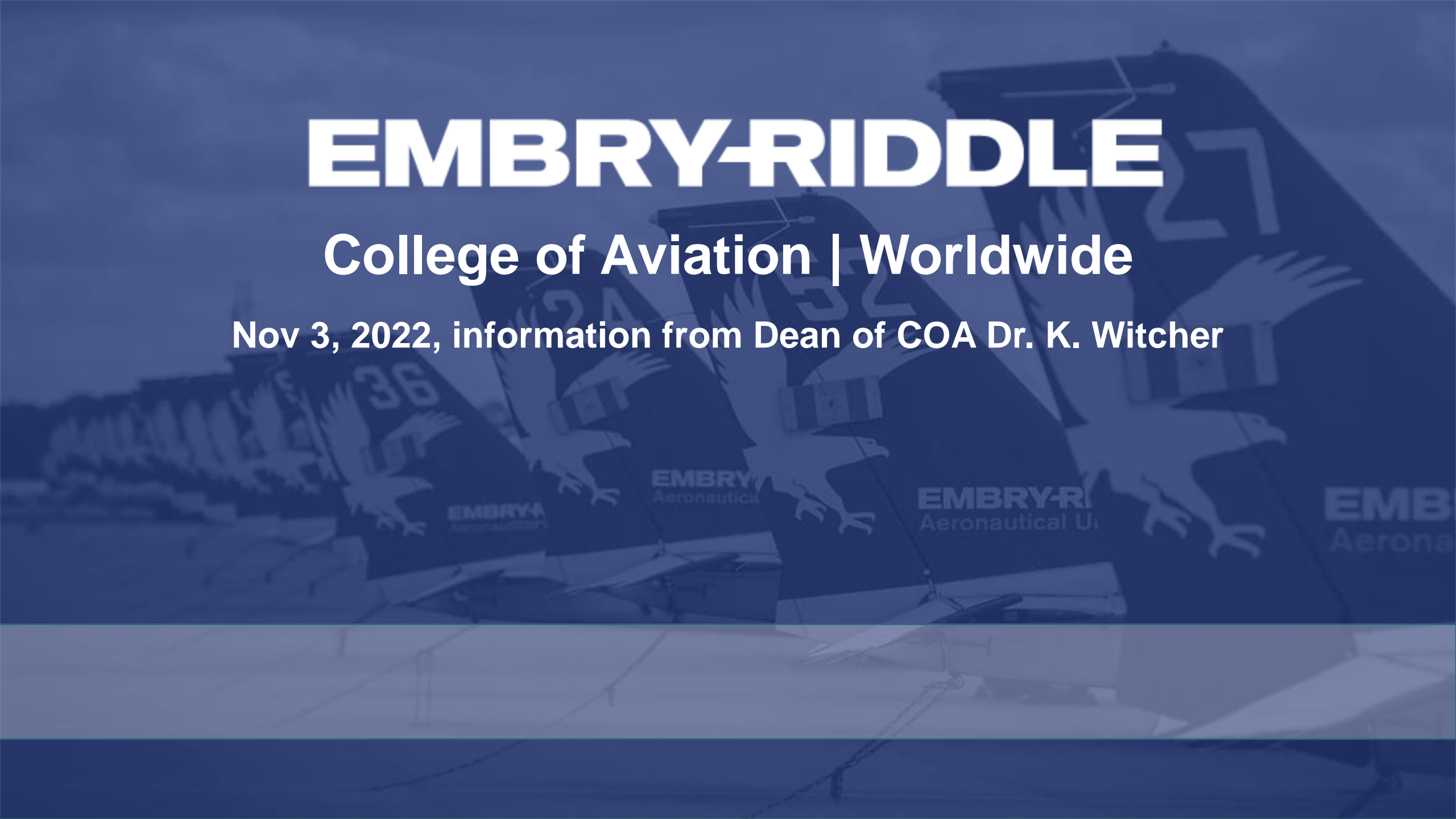
by Dr. P. Barry Butler 2022

- Global Leadership
 - Continuous improvement to remain the leader in aviation aerospace higher education
- Personal attention to student success
 - Goal to prepare students for a future in the aviation industry
 - Show students we care, wanted them excited and encourage to pursue goals and dreams
 - Prepare for meaningful careers, and experiential learning
- Respected for innovation and research
 - Our recognitions and expansions in this are have grown significantly
 - Center for Aerospace Resilience
 - Center for Aviation and Aerospace Safety

EMBRY-RIDDLE

College of Aviation | Worldwide

Nov 3, 2022, information from Dean of COA Dr. K. Witcher



WHO WE ARE

78 employees 74 FTF (31% female)

415 +/- adjuncts

School of Engineering

2 Aero academic departments

Dept of Flight and Dept of Aviation English

Hawaiian Airlines Joins Embry-Riddle's SkillBridge Program To Train, Employ Transitioning Military Personnel

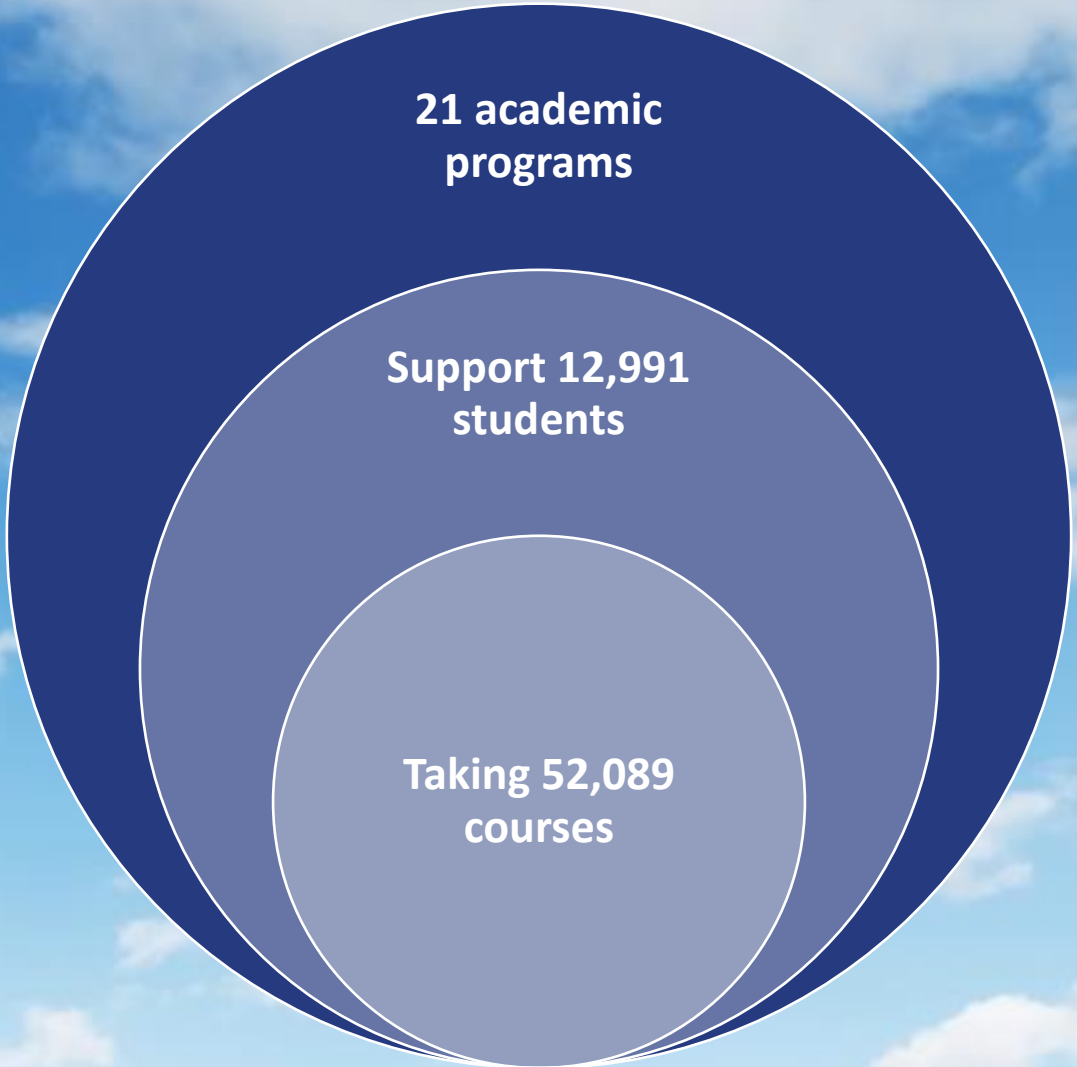


<https://news.erau.edu/headlines/hawaiian-airlines-joins-embry-riddles-skillbridge-program>

The Aviation Maintenance Technology program is a nine-week, full-time program designed to train and place transitioning service members, honorably-discharged veterans and eligible military spouses into aviation maintenance and technician careers with reputable aerospace industry partners who are committed to hiring them.

<https://worldwide.erau.edu/amtp>

WHAT WE DO



Program updates

BSE awarded ABET accreditation (all engineering undergrad awarded ABET)

Master in Space Operations growth (329 applications in first year)

Master of Science in Aviation Safety (July 2022)

Master in Aviation Cybersecurity (July 2022)

BS in Pilot Operations (Jan 2023)



WORLDWIDE COA DOF PIONEERING OPERATIONS



Advanced Certifications



Multi-UAS Procedures Remote Split Operations



Industrial Inspection



Counter-UAS



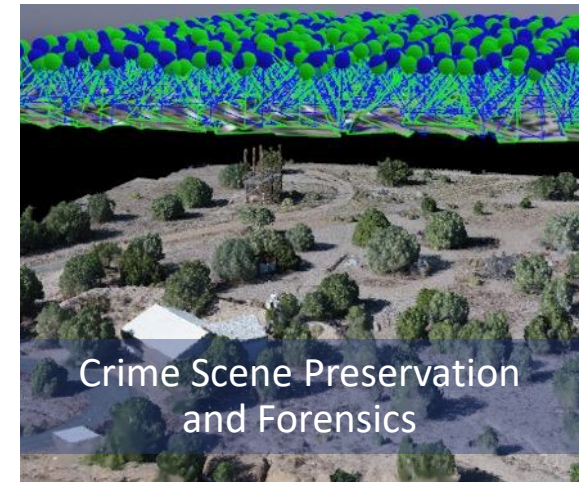
Public Safety Training



Law Enforcement Active Shooter Response



Augmented Reality



Crime Scene Preservation and Forensics

AVIATION ENGLISH TRAINING FOR BRAZIL

- Department of Airspace Control (DECEA)
- Four-year contract
- English for Air Traffic Control Program
 - 40-weeks
 - Online, asynchronous, instructor-facilitated
 - 1,300 students
 - 4 cohorts of 325 students/year
 - Conversation Partner Program – opportunity for Brazilian students to meet virtually for informal conversation with ERAU undergraduate students
- Every year, the top 14 students will travel to Daytona Beach for specialized training



COA - Research

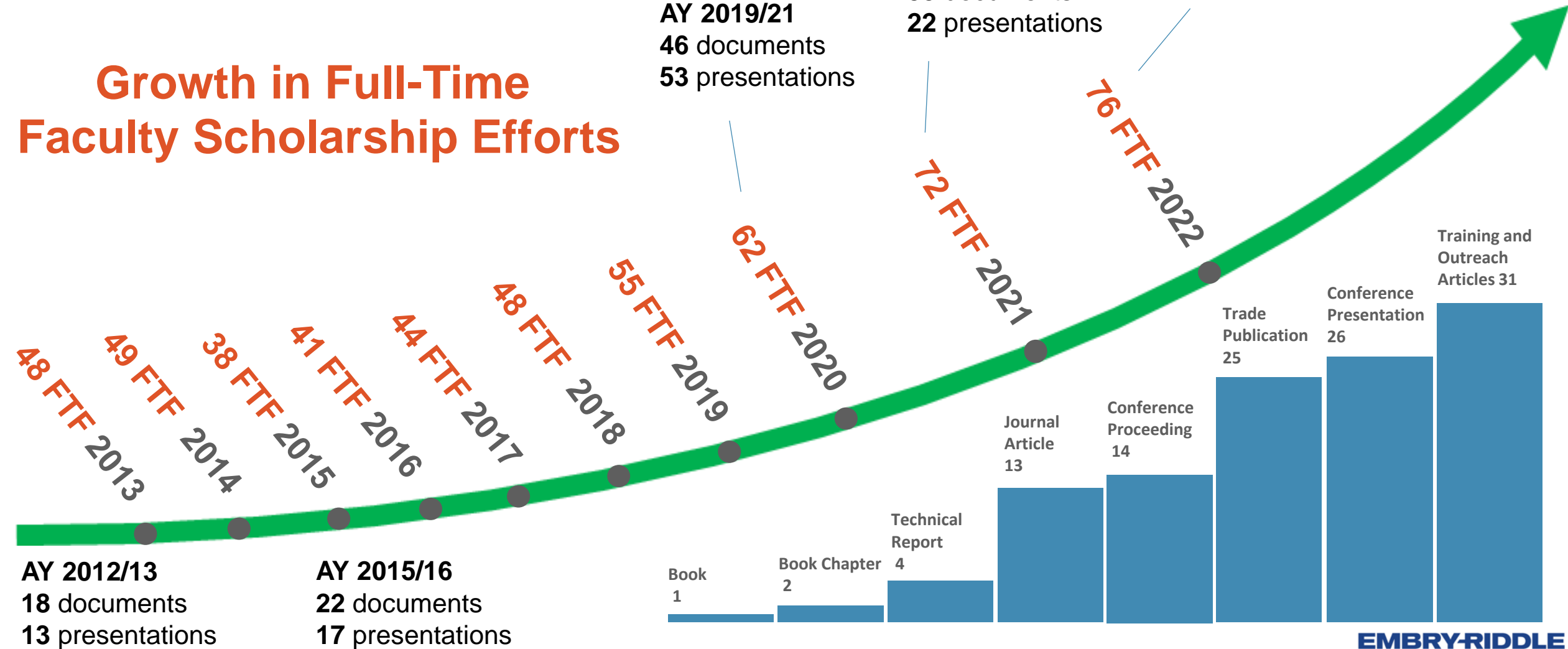
Research Products AY 21-22

AY 2021/22
63 documents
57 presentations

AY 2020/21
53 documents
22 presentations

AY 2019/21
46 documents
53 presentations

Growth in Full-Time Faculty Scholarship Efforts



International Journal of Aviation, Aeronautics, and Aerospace (IJAAA) AY 2021-22

Highlights:

- IJAAA was recently accepted in both EBSCO and Cabells
- In AY 21/22, we had 113 submissions (AY 20/21 Comparison: 112 submissions).
- 40 were accepted; 31 were academic articles, 9 were other submissions (concept papers, position papers, etc.).

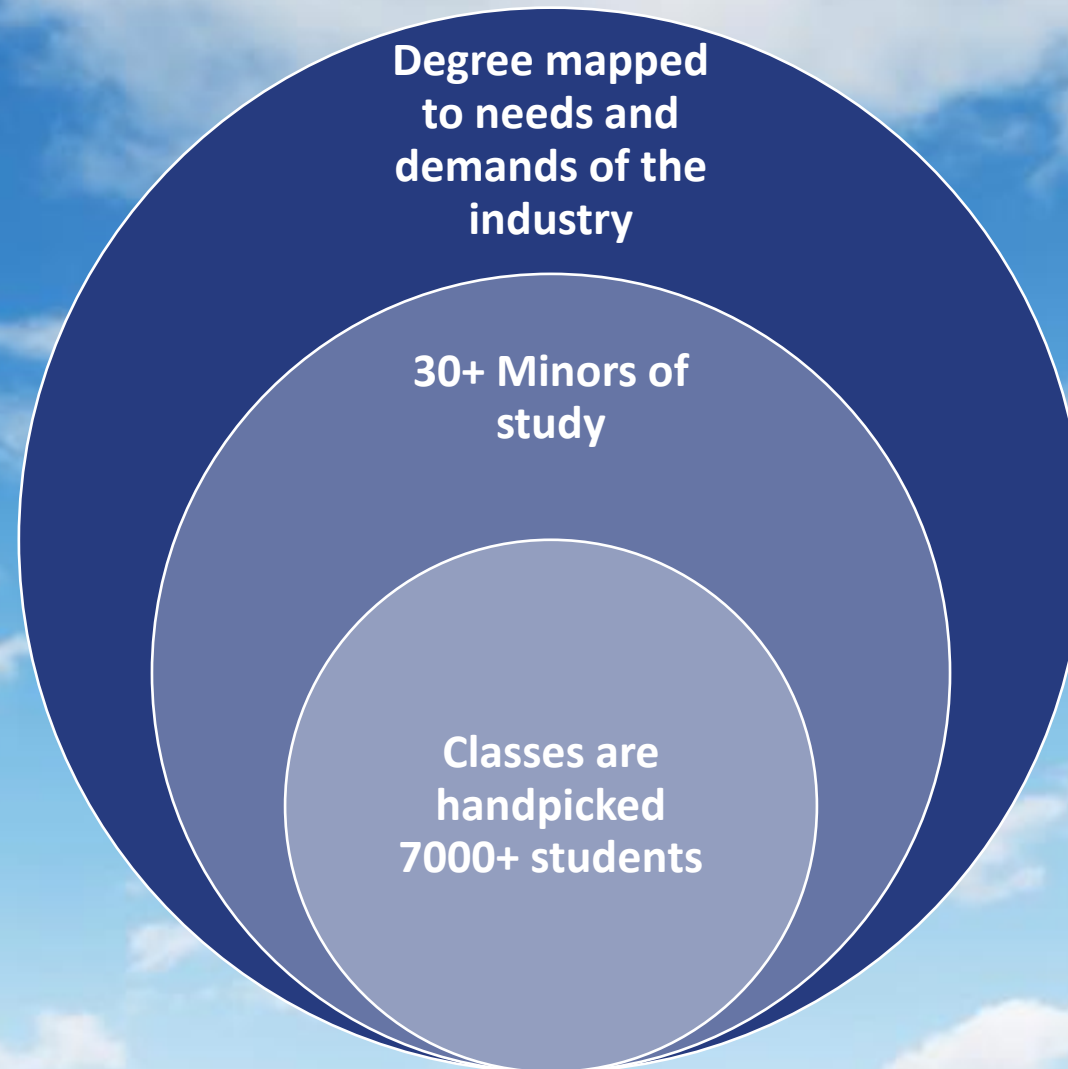
Readership Distribution:

2021-22: 4,515 Institutions; 194 Countries, 1,513 Referrers

2020-21: 7,486; 206 Countries; 2, 654 Referrers



Bachelors of Science in Aeronautics



BSA Academic Snapshot

The Aeronautics degree is designed specifically for students who work, have worked, or desire to work in aviation-related careers, whether in fixed wing, rotary wing, air traffic control, or other areas of aviation.

- Curriculum is closely mapped to the needs and demands of the aviation/aerospace industry
- Multidisciplinary program with courses of study in human factors, security, aviation safety, occupational safety and health, air traffic control, aircraft maintenance and aeronautical science
- Electives and minors allow students to tailor their degrees to particular interests and career goals



BSA Key Features

Strengths

- **Accredited – Aviation Accreditation Board International (AABI) and Southern Association of Colleges and schools (SACS)**
- **Flexibility in learning modalities – global anywhere anytime**
- **Faculty that is involved in the industry – real world application**
 - **Supported by exceptional adjunct instructors from around the globe**
- **Course development is student focused – engaged learning experience**
- **Relies on support from the ERAU Worldwide Industry Advisory Board**

Learning Modalities

- **Traditional classroom**
 - 130 campus locations worldwide — from the U.S. to the UK to Turkey to Singapore
- **Online learning**
 - Online classes require no commuting or sitting in a classroom, and students can set their own schedule
- **Classroom and Online blend**
 - EagleVision Home, EagleVision Classroom, and the traditional classroom at one of our locations offer blended options
- **Eagle Vision**
 - Virtual classroom that combines Web video conferencing and learning management system software to maximize the benefits of synchronous learning

Hands on Learning

- Co-ops/internships
 - Practical experience learning
- Field experience
 - Opportunities aid in bridging the gap between student life and the world of work by combining students' academic and career interests with work experience in business, industry, government or service organizations
 - Enhances motivation and classroom participation by relating academics to the work world

Careers

- UAV Pilots/Helicopter Pilots/Aircraft Pilots
- Air traffic Controllers
- Aviation Investigator
- Airport/Airline Manager/Director
- Operations Manager/Director
- Accident Investigation/Prevention
- Aircraft Crew Member
- Air Transportation Specialist
- Aviation Maintenance
- Aviation Safety
- Aircraft Manufacturing
- Avionics & Electronics
- Consulting, Customer Service
- Education/Instruction/Training
- Ground Support Services
- Management
- Sales and Marketing

Hawaii Employment Trends

53-6051.01 - [Aviation Inspectors](#)

View trends for state:


In Hawaii:

Employment data for **Transportation Inspectors**.

Employment (2020)	150 employees
Projected employment (2030)	160 employees
Projected growth (2020-2030)	7%
Projected annual job openings (2020-2030)	20

In the United States:

Employment data for **Transportation Inspectors**.

Employment (2021)	24,900 employees
Projected employment (2031)	25,400 employees
Projected growth (2021-2031)	 2% Slower than average
Projected annual job openings (2021-2031)	2,800

<https://www.onetonline.org/link/local-trends/53-6051.01?st=HI>

Top Employers

- Regional and Major Airlines
- Airports
- Fixed Base Operators
- Flight Schools
- Government Agencies
- Aerospace Industry
- Air Services
- Aircraft Manufacturers
- Air Services
- Consulting Firms
- Corporate Flight Departments
- Defense Contractors
- Federal Research Labs
- Helicopter Manufacturers
- Insurance Companies
- Manufacturing Industry
- Multinational Corporations

Aviation jobs in Hawaii

<https://www.avjobs.com/jobs/index.asp?ctry=United+States&s=HI>

https://www.glassdoor.com/Job/hawaii-airline-jobs-SRCH_IL.0,6_IS1385_KO7,14.htm

<https://www.indeed.com/q-Federal-Aviation-I-Hawaii-jobs.html?vjk=0d36e6dfc9aa09db>

<https://dod.hawaii.gov/hiang/join/careers/>

Salary

- US Bureau of Labor Statistics Economic News releases
<https://www.bls.gov/bls/newsrels.htm>
- **General knowledge**
 - Based upon data collected from ERAU's Office of Institutional Research in 2020, it was determined that:
 - The median annual salary for graduates who earn their BSA from Embry-Riddle is \$77,000
 - Once bachelor level aviation professionals reach mid-level career, salaries typically show a marked increase of up to \$100,000 annually depending upon title, industry and years of experience
 - The urgency of the hiring need can also help to increase salary expectations

Industry Needs/Job Forecasts

- US BUREAU OF LABOR STATISTICS <https://www.bls.gov/>
- Air Transportation <https://www.bls.gov/iag/tgs/iag481.htm>
- As of Oct 2022, there were 553,866 employed in the Domestic Airlines industry <https://www.ibisworld.com/industry-statistics/employment/domestic-airlines-united-states/>
- Industries provides air transportation of
 - Passengers
 - Cargo
- Industries provides air transportation by
 - Airplanes
 - Helicopters https://www.bls.gov/oes/current/naics3_481000.htm

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ERAU Website

- <http://erau.edu/degrees/bachelor/aeronautics/>
- ERAU Catalog
- <http://catalog.erau.edu/worldwide/aeronautics/bachelors/aeronautics/>

Questions?

In conclusion

Thank you for your time

I believe there is an opportunity to grow the aviation industry in Hawaii so that our children don't have to move to the mainland to work or go to school

Dr. Linda Vee Weiland

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