HOW TO APPLY
Submit the following:

• Application: erau.edu/apply
• Official high school and/or college transcript or GED scores.
• ACT and/or SAT scores (strongly recommended).
• $50 nonrefundable application fee.
• Two letters of recommendation.
• Optional: admission essay and/or résumé.

Transfers: if you have more than 30 credits, no high school transcripts are required, only transcripts from all colleges attended.

We evaluate applications on a continuous basis. Once all documents have been received, we will notify you of your admission status.

Based on the quality of our programs and the exciting and growing industries we serve, Embry-Riddle degrees are in high demand. Some of our programs may have limited capacity and we encourage you to check the website or contact one of our admissions counselors for updates.

COME VISIT
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To apply for need-based financial aid:

• Fill out the Free Application for Federal Student Aid (FAFSA) at fafsa.ed.gov.
  It is available October 1 of the year before you intend to start college.
• Include Embry-Riddle’s federal school code on the FAFSA: 001479.

The FAFSA is the first step in receiving additional aid. Notification of your complete financial aid package will arrive after you submit your FAFSA form. Federal and state financial aid programs are available to U.S. citizens or permanent residents who qualify.

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Worldwide/Online
worldwide@erau.edu
800.522.6787

FALL | 2019

NEXT STEPS ///
The autonomous Minion boat was a huge hit at an international contest in Hawaii, where the Embry-Riddle team finished third overall and wowed the judges.

THE SCIENCE OF SUCCESS

The National Science Foundation recently awarded this year’s prestigious Graduate Research Fellowships, and four Embry-Riddle aerospace engineering students landed near the top of the class. Students Renee Spear and Rachel Rise won full three-year stipends to pursue their STEM studies, while Julia Mihaylov and Armando Collazo Garcia earned honorable mentions. The four were chosen from among 12,000 applicants nationwide for the distinguished awards.

WHO WE ARE

Embry-Riddle Aeronautical University offers the world’s premier collection of programs in aviation, aerospace, engineering, business, security and intelligence. Students immerse themselves in real-world research, pushing boundaries and reaching new frontiers. By the time they graduate, they’ve interned at top flight companies, probed the farthest reaches of the solar system and have begun unraveling the deepest mysteries of the human body.

Where will your future take you? Find out at our campuses in Florida, Arizona, or online anywhere in the world.
When NASA called, two teams of pioneering Embry-Riddle students were ready to answer. The 13 undergrads went to NASA’s Neutral Buoyancy Lab this summer to test video camera platforms the students developed to allow astronauts to monitor their spacewalks as part of the NASA Micro-g NExT Challenge.

“To be able to say that we worked with NASA is just amazing for us,” said Team Leader Nick Lopac (‘21), who is majoring in Spaceflight Operations. The student teams, whose majors include Aerospace Engineering and Spaceflight Operations, created two devices that were tested in the NASA lab. One was called STAR, for Specialized Tool for Astronaut Recording, and the other was dubbed CAM, for Camera Attachment Mechanism.

“It was nerve-wracking at the beginning, but we got comfortable pretty quickly,” said team member Angelica Valencia (‘22), an Aerospace Engineering major who worked on STAR.

“The STAR device that Valencia and Lopac worked on was designed to be simple to use. It will now be entered into a NASA database, so it can be replicated if the agency chooses to send it into space, something Valencia and Lopac are very much hoping will happen.

“That,” Valencia said, “would be the ultimate.”

Daniela Baroni (‘19), who also majors in Aerospace Engineering and whose team designed CAM, called the entire experience “surreal.”

“The team members had the opportunity to meet current and future astronauts who were being trained by our mentor, as well as see mission control communicate with astronauts in the ISS,” she said.

Like Lopac and Valencia, Baroni was thrilled by being able to work closely with NASA.

“I learned a significant amount about teamwork, leadership, patience, and communication from my team members,” she said.
Who do police call when they need a fresh set of eyes to crack a cold case? When it came to a bizarre bank burglary in Arizona, they called in a team of students from the renowned College of Security and Intelligence at Embry-Riddle.

Investigators hoped the students from the unique program, which sends graduates on to careers with the FBI, CIA, Secret Service and other law enforcement agencies, could help unravel the mystery of the 2016 heist, the largest in Arizona history, which netted at least one clever criminal $350,000.

EYEING THE EVIDENCE

The 16 students worked on the investigation as part of their Capstone senior project under the guidance of Professor Steve Hooper. Because the theft is still an open case, the students weren’t permitted to talk about what they found out during their review.

Hooper said their main function was to put “fresh eyes” on the evidence, and they were able to come up with some “new theories.”

FACT FINDING

Although the results of the student-led probe have to stay under wraps for now, Hooper said the partnership with police was “groundbreaking” and may lead to future collaborations that will continue giving students vital hands-on investigative experience.

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SAPIR KAUFMANN ’19
AVIATION BUSINESS ADMINISTRATION

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SAPIR KAUFMANN ’19
AVIATION BUSINESS ADMINISTRATION

The heist happened overnight on Sept. 27, 2016. Apparently, the crook used a key to get in, knew where the bank’s cameras were positioned and was able to avoid being recorded. Police obtained one grainy image showing someone in a padded jacket and wearing a cowboy hat with a covering over their face.

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A trio of students from the nation’s only undergraduate Aerospace Physiology program took their classwork to the real world by completing the first-ever clinical rotations at AdventHealth hospital. Haleema Irfan (’21), Jenifer Schuman (’20) and Morgan Ackermann (’19) spent about 10 hours a week working with doctors and nurses and observing procedures. Their experience included rushing from the helicopter pad to the emergency room with trauma cases, watching doctors treat patients in acute respiratory distress and interacting with patients undergoing physical therapy.

This vital first-hand experience went along with the on-campus research that also is a key part of this innovative pre-med degree track. Irfan, who wants to be a neurosurgeon, and Schuman, who also has her sights set on medical school after graduation, worked with Dr. Hugo Castillo to study how background levels of radiation impact cell growth. Ackermann, who plans to become an Air Force flight surgeon, researched how DNA determined whether patients would be susceptible to anaphylactic shock.

The three students believe the new clinical rotations they helped pioneer add extra value to a groundbreaking initiative. Says Irfan: “It’s set up for the success of the student.”

A NASA internship means the chance to work on a groundbreaking helicopter headed to Mars.

A coveted internship at NASA’s Jet Propulsion Laboratory in California last summer allowed Chloeleen Mena (’20) to work on something that was out of this world, literally. Mena, an Electrical Engineering major at Embry-Riddle, spent several months on the Integration and Test team for the Mars Helicopter Project, scheduled to be part of the Mars 2020 mission.

“It’s been a lifelong dream of mine to work at JPL,” she said. “And I got to live it.”

Although Mena felt she was as prepared as possible thanks to her professors at Embry-Riddle, she learned quickly that getting to JPL was only half the story.

“On my first day, I was extremely overwhelmed,” she said. “The project was already well underway and I needed to catch up.”

Mena was assigned to assist with the Mars Helicopter test program and then write procedures for future tests. Here, she says, her Embry-Riddle education kicked in and made the difference. “The curriculum that was most helpful to me during my internship at JPL was Technical Report Writing,” Mena said. “I used what I learned to section the procedures I was writing, make sure that the steps were detailed, and ensure that there was enough information for each step.”

In addition to being inspirational, the hands-on internship experience at JPL also gave Mena new perspectives in shaping her ultimate career goal, working in space exploration at NASA. “I realized that testing is what I have the most experience in but that isn’t all that I want to do,” she said. “So I’ve become more open about what companies I apply to.”

No matter what the future holds, Mena plans to keep her sights set on the stars.
Valentina Waters (‘19) believes that engineering should transcend boundaries. And to her, that means there should be no limits when it comes to getting an engineering degree.

Waters, an Embry-Riddle Worldwide Campus senior who just moved to the U.S. from Japan, says the university’s online classes are helping her achieve the dream of using her mechanical skills to make the world a better place.

“Helping others is what makes the world go ‘round,” she said. “So why not do it in a smart way that uses technology?”

While earning an engineering degree online may seem a bit daunting to some, Waters said that Embry-Riddle’s long history as a distance learning pioneer means the university has refined all the resources she needs to succeed.

“An online degree program provides great flexibility, especially for those who cannot attend a physical school,” she said.

Embry-Riddle Worldwide Campus student Michael Loehr (‘20) knows a few things about preparing for tomorrow while making the most of today.

Loehr, a senior airman in the U.S. Air Force, is a member of the USAF Air Demonstration Squadron, Thunderbirds, one of the world’s elite jet demonstration teams.

He’s also working toward his Aeronautics degree — something only possible thanks to online courses offered by Embry-Riddle’s Worldwide Campus.

“An online degree program provides great flexibility, especially for those who cannot attend a physical school,” he said.

The Embry-Riddle-Thunderbirds connection also now includes current pilot Capt. Michael Brewer ‘05, who flies the #3 jet.

Brewer, who graduated from Embry-Riddle with a B.S. in Aeronautical Science is now pursuing an advanced degree through the Worldwide Campus.

“The online classes let me do my college work when I can and when I want to,” he said. “It’s amazing. I never thought I would have time.”

MICHAEL LOEHR ‘20 AERONAUTICS

Visit erau.edu/stories/thunderbird to read and see more.

A GROWING TRADITION

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STUDENT FACTS

- 6,000 UNDERGRADUATES
  - 50 states/107 countries represented
  - 17% International students

ATHLETIC TEAMS

- WOMEN'S
  - Basketball
  - Cross Country
  - Golf
  - Lacrosse
  - Soccer
  - Softball
  - Tennis
  - Track & Field
  - Volleyball
- MEN'S
  - Baseball
  - Cross Country
  - Golf
  - Lacrosse
  - Rowing
  - Soccer
  - Tennis
  - Track & Field

CLUBS & ORGS

- 190+ student clubs ranging from Mars Society to Musicians Club; and from Eagles FM-WIKD 102.5 to Microgravity Club; as well as Club, Intramural & Recreational Sports.

JOIN THE CLUB

- SCUBA

A Deeper Dive

Finding fun and adventure deep beneath the waves

From inland springs to offshore oceans, Florida has plenty of water to explore. And that’s just what the Diving Eagles Scuba Club does semester after semester.

The club has been helping Embry-Riddle students discover the joys of diving since it started in 1974. This past year, there were members from majors that included Aerospace Engineering, Mechanical Engineering and Aerospace Physiology, said John Scheer (’22), a Computer Engineering major who handles public relations for the club.

Through a partnership with a dive shop near the campus, club members can save money on certification, a process that takes only two weekends. The club also offers buoyancy compensation devices, regulators and dive computers for use by members.

The Diving Eagles meet once a week, but the main events are the club’s dive trips. They include visits to the freshwater natural springs that dot Central Florida, beach dives and, at least once a semester, a boat dive.

They’re also willing to organize trips to whatever destinations divers want to visit, and that led to what Scheer said has been the best outing so far.

“I believe I speak for a good portion of the members that the favorite dive we did was the Emerald Charters Shark dive off of Jupiter,” he said. “Being able to swim with Goliath Groupers, lemon and tiger sharks was definitely an amazing experience.”

GOLF TEAM CAPS SEASON WITH WIN

The Embry-Riddle women’s golf team finished the 2018-19 regular season in style, winning the “Bash at the Beach” crown. The Eagles fielded two teams in the six-team field and both the Blue and Gold squads fired final-round scores of 309. Aviation Business Administration major Camila Sierra (’20) (left) claimed the individual title at the event, tying her career low by shooting a final round 73. She edged out fellow Eagle Natalie Brooks (’20) (right), a Global Conflict Studies major, by a single stroke.

Frisbees Flying High

At Embry-Riddle, people fly all sorts of things — including Frisbees.

Every Tuesday and Saturday, the Ultimate Frisbee Club is either practicing or competing in this high-energy sport. They’re also having a blast, says outgoing Club President Jacob Waltz (’19), who graduated in May with a degree in Air Traffic Management.

“Our Ultimate Frisbee team is like family,” he said. “It’s what I’m going to miss the most.”

The club was born in 2005 and now has about 30 active members from a wide range of degree programs. The practices and scrimmages get them ready for competitions, and the club had its best finishes this year, coming in second in sectional competition and fifth in regionals.

DID YOU KNOW?

The flick and backhand methods are the most common ways to throw the disc.
From strings to swings, the Eagle Music Club is all about helping students indulge their musical passions.

“The education stuff has to come first,” Hoover said. Music, however, is never that far behind. With guidance from Prescott Music Director Jonathan McNeeley, the various groups and ensembles work hard to polish performances that are showcased throughout the school year, both on and off campus.

While many of the students in the club were musicians in high school, Hoover said it is open to anyone who wants to play regularly and to those of all skill levels. The club will even subsidize some musical instrument rentals.

“We want to grow the sub-community of musicians on the campus,” said Hoover, who is a sax player and part of the Swingin’ Eagles jazz band. “We want to bring people together.”

Hoover and other club members were excited by the interest of many freshman during the recent Preview Day, and they are looking forward to a fall filled with new members and new music.
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ALSO IN SPACE
Student Tests Mars-bound Helicopter

AND IN SECURITY & INTELLIGENCE
Cybersecurity Students Investigate Bank Heist

NEW IN ENGINEERING
Engineering an Unmanned 16-foot Boat