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.

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- 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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daytonabeach@erau.edu
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**Where will your future take you?** Find out at our campuses in Florida, Arizona, or online anywhere in the world.
Immersed in Technology

Students had their designs for two separate orbital camera attachments tested at NASA’s famous Neutral Buoyancy Lab in Houston.

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.

“During the tests, we got good feedback from the astronauts and the diving team. We were very proud!”

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.

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.

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.

“Thanks to Embry-Riddle, I was able to work for many small and big airlines and get to where I am today.”

SAPIR KAUFMANN ’19
AVIATION BUSINESS ADMINISTRATION

Sapi Kaufmann (’19) is well on her way to becoming a leading aviation executive and it’s thanks to a winning combination of education and experience.

Kaufmann, 24, graduated in July with an Aviation Business Administration degree and was recently named Airports Coordinator in Richmond, B.C., for Jazz Aviation, Air Canada’s largest regional airline partner. She discussed why she loves her job and the opportunities an Embry-Riddle education is helping create for her.

Q: What were some of the advantages of your Embry-Riddle classes?
A: “The classwork mirrored many real-world situations I deal with at work. During one project, I worked with a team to review consistent problems with delays. We studied arrival patterns, gate assignments, ground operations, security checkpoints, and the layout of the terminal to see how we could address the problem.”

Q: And what did you come up with?
A: “The airport was small and the lack of ground operation support made it difficult for the aircraft to make a quick turnaround like we needed. So that’s what we needed to fix.”

Q: How did the flexibility of online classes help you in getting your degree?
A: “Having the opportunity to take part in online studies while still being able to focus on my job has opened many doors for me. Embry-Riddle has given me the opportunity to be independent as juggling work, family, and school isn’t an easy thing to do while being a full-time student. It’s helped to prepare me for new challenges coming my way.”

Q: And what new challenges would those be?
A: “I want to continue my career and my education at Embry-Riddle, and I am aiming for a Master of Science in Aeronautics. I want one day to be Air Canada’s Vancouver Operations Manager.”
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.

“I realized that testing is what I have the most experience in but this 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.

“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

Emory-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.

ONLINE & ON THE ROAD
As an assistant crew chief on the #6 jet, Loehr has been on the road an average of 220 days a year since he joined the team three years ago.

“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.”

Loehr credits the program, and his academic advisor, with helping him stay on track when things get hectic.

“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

MORE OF THE THUNDERBIRDS
Visit era.edu/stories/thunderbird to read and see more.

“Embry-Riddle will open doors you didn’t even know were there,” Dr. Witcher said.

A GROWING TRADITION
Loehr is part of a long line of Embry-Riddle graduates and students who have been Thunderbirds. That includes Dr. Ken Witcher, the College of Aeronautics dean at Embry-Riddle Worldwide. Witcher was an assistant crew chief on the #5 jet between 1996 and 1999.

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.

“We’ve established quite a tradition,” Dr. Witcher said.

Borders are no Boundaries for earning Online Degree

Valentina Waters wants to use her engineering degree to make a difference.

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.

“Engineering classes are tough. However, it is not out of reach to anyone willing to work hard;” Waters said. “Embry-Riddle professors are experts in their fields, provide great quality education, and are willing to help anyone who is willing to learn.”
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.

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.

“J 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.”

JOIN THE CLUB /// ULTIMATE FRISBEE CLUB

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.
From strings to swings, the Eagle Music Club is all about helping students indulge their musical passions.

"It’s really an awesome club, and it continues to grow," said Tyler Hoover ('21), an Aerospace Engineering major who is now club president. "Many of our members are part of more than one group."

Started almost five years ago, the Music Club rehearsals happen on Sunday when members have time to focus on learning their musical pieces.

"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.

The club, which meets monthly, regularly opens its working laboratory for individuals and teams to work on projects throughout the semester. Simmons said the club is open to ambitious students on any degree track.

"There will be several large projects this year, including competing in the FAR 1030 competition, where teams will design, build, and fly a rocket to either 10,000 or 30,000 feet," he said, adding that there also will be "opportunities for members to become involved in liquid rocket propulsion research and testing with our new Liquid Rocket Engine test cell."

JOIN THE CLUB // ROCKET DEVELOPMENT LAB

Students Shooting for the Stars

Rocket club offers high-flying fun, challenging projects

To members of the Rocket Development Lab, the sky is not a limit. It’s a challenge.

Dedicated to building bigger and better rockets and rocket engines, the club attracts "the most motivated and dedicated individuals on campus, working on some of the largest, most complex, and coolest projects," said former club President Bryce Smoldon ('20), an Aerospace Engineering major.

The Rocket Development Lab has more than 50 members from a variety of degree programs, including Mechanical Engineering and Aeronautics, and has hit some significant milestones recently. Club members created a rocket that flew 2.5 times the speed of sound and reached 36,000 feet, and also designed a re-usable rocket to compete in the Friends of Amateur Rocketry (FAR) Mars Society Launch contest.

TO INFINITY AND...

Club members created a rocket that flew 2.5 times the speed of sound and reached 36,000 feet.

SEE US ROCKET!
Visit erau.edu/stories/rocket

The wrestling team just wrapped up a historic season, winning its first-ever U.S. Bank CCC championship, sending 10 wrestlers to the 2019 NAIA National Championships, and finishing the year ranked 11th in the country. The Eagles also won 15-0 in dual meets, including going 7-0 against top-25 teams.

"Collegiate wrestling is a tough sport...I think you just get to trust the process, stay true and work hard consistently each day."

DANIEL BUTLER '21
AEROSPACE ENGINEERING
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Embry-Riddle students work with NASA to build tomorrow’s space tools.

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AND IN SECURITY & INTELLIGENCE
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