

UNMANNED AERIAL VEHICLES

UAV education programs reach new heights

BY MATT BOYD

We devote pages and pages in every issue of *RotorDrone* to the ever-expanding role that unmanned aircraft systems (UAS) of all types play in our world. Much of our focus is recreational, but increasingly you see us documenting (and celebrating!) the commercial, environmental, and public-safety advancements that drones are ushering in. UAS is far and away the fastest-growing segment of the aviation industry. It's been estimated that its economic impact could climb past \$100 billion by the year 2020!

Think about that for a second. With that much money almost literally just floating out there, there's an entire generation of technically adept kids coming up through the schools that are looking at drones as a viable career path. And there are plenty of the rest of us with an entrepreneurial streak just dying to take our recreational fascination with all things drone-related into the professional sphere.

What will take all of that ambition and transform it into a reality is education and training, and there are hundreds of institutions out there looking to provide it. I

went looking to see what programs are already in place to help students get their drone careers off the ground. What follows here is by no means comprehensive—there are already far too many institutions offering some form of drone education or technical-training classes to have a hope of listing every one. Rather, we sought to give you a good cross-section of the programs that are out there, with examples of some we felt stood out in some way or another. We've got everything from beginner courses lasting a couple of hours to doctorate-level graduate programs. Some are conducted in person, while other classes are delivered online. Some prepare you for the FAA's Part 107 Unmanned Aircraft General Exam, necessary for anyone looking to use a drone for

commercial purposes. Other courses focus on piloting, design, or maintenance. Still others focus on specific skill sets relating to a particular use. In total, I found more than 50 programs from nearly 20 schools. Because I had to organize them somehow, I chose to group them into categories based roughly on the time required to complete the course of study and/or the type of certification or degree awarded. I have highlighted a few notable institutions and created a reference chart for the different programs. I hope you find it useful, and maybe the glimpse of the educational opportunities that are already available to drone enthusiasts of all experience levels will inspire you to take your love of drones to the next level by pursuing one of them.

Embry-Riddle Aeronautical University's UAS club operates their quadcopter on campus in Daytona Beach, Florida, December 1, 2014. (Photo courtesy of Embry-Riddle/David Massey)

FAA PART 107 TEST-PREP CLASSES

The most basic level of organized UAS training courses consist of various test-preparation programs for the FAA's Airman Knowledge Test as part of Title 14, Part 107 ("Part 107" for short)—the certificate required for commercial operation of a drone weighing less than 55 pounds. These classes can range from prerecorded online audio/video tutorial programs, done at the student's own pace, to live-webcast video classes to in-person classes and seminars, ranging from a few hours to several days. Often these types of training are administered by companies, but many are also conducted by continuing-education and/or professional-development departments of academic institutions. Typically these classes have no special requirements or prerequisites, and are geared toward general enthusiasts rather than full-time students. Some in-person programs roll the cost of the test itself into the tuition and are licensed by the FAA to administer it, while others simply prepare you for the exam and leave it to the student to schedule their own. When comparing class format, prices, and times, make sure that you consider what will work best for your schedule and budget.

Relevant schools: Academy of Model Aeronautics; Eye In The Sky UAS Training Academy; Kansas State University; Monroe Community College; Northwest Michigan College

SEMINARS AND SHORT-TERM TRAINING

This is the next step up from the FAA Part 107 test prep and sometimes works in concert with those classes. Most of these seminars are geared toward practical flight-training skills, be they general stick time or task-specific knowledge and techniques like agriculture, cinematography, or emergency response. I have defined these as classes ranging from a several hours to a few weeks, but the common element is that they focus on specific skill sets rather than FAA testing. Again, we have a mix of options delivered in person and online, and prices vary according to class length, intensity, and specialty. Commercial companies, private universities, and public colleges all offer options in this category. Some of these programs offer completion certificates, but these are less important than the practical skills themselves. Pilots will likely not need to take more than one general flight-training class, but some might wish to take multiple courses in specialized skills.

Relevant schools: Academy of Model Aeronautics; Drone University USA; Eye In The Sky UAS Training Academy; Indiana State University; Kansas State University; Monroe Community College; National Drone School; University of Nevada, Reno; Unmanned Vehicle University

Institution Profile

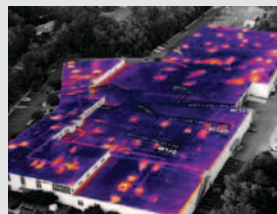
Monroe Community College
Rochester, NY
monroecc.edu



Monroe Community College is an excellent example of a regional school that recognizes the commercial potential of UAVs and has taken a proactive approach to drone education. As part of its Corporate College Economic Development and Innovation Workforce Services Division (which is the fancy way of saying "professional adult education" geared toward us folks with full-time jobs), Monroe offers night classes starting with FAA Part 107 Test Prep as well as an introductory "Learn to Fly" course, which even includes a Syma X5C and a copy of the AeroSIM RC flight simulator. Monroe also sees an important role for drones in the public-service sector, and offers a course for public-safety personnel that introduces them to the various benefits of drone technology in emergency situations as well as their value in training personnel during both drills and post-emergency evaluation.

Institution Profile

Drone University USA
Sacramento, CA
droneuniversityusa.com



COURTESY OF DRONE UNIVERSITY USA

Drone University USA is a commercial UAV education organization that offers an impressive program of specific flight-training and technical skills, including classes on aerial agriculture management, first responder search and rescue, commercial disaster response, and aerial cinematography. Drone University USA contracts with industry professionals to conduct its training seminars and classes. (The cinematography course, for example, is headed by Nick Swartzendruber, whom we featured in the "Drone Cowboys" feature in the Nov/Dec 2016 issue.) Most of these topic-specific courses comprise one to two days at the company's Sacramento facility, but if a client books a full class of 12 students, Drone University USA will take its show on the road and run its training seminars at any appropriate facility that a client specifies. It has also partnered with the Tesla Foundation (teslafoundationgroup.org) to offer, starting in 2017, its base flight-training course at more than 20 colleges and universities across the country.

Institution Profile

Academy of Model Aeronautics (AMA)
amaflightschool.org / fly-robotics.com



The AMA has decades of experience in training and support of all kinds of model aircraft, so of course it offers a variety of programs relevant to UAS. In conjunction with Fly Robotics, the AMA offers Part 107 prep and UAS Public Safety courses, but most interesting is its STEM (Science, Technology, Engineering, and Math) Education program for young students. It's a team-based program run through local schools and supported with online curriculum. The ground-school component of the STEM UAS program will prepare students to take the FAA Part 107 test upon completion.

TECHNICAL CERTIFICATIONS

I define this category as longer-term programs that comprise multiple classes or topics but tend to remain more skill-oriented rather than academic in nature. Duration can range from a few weeks up to a full year, and students typically receive a technical certificate upon successful completion. Many of these offerings are comparable to vocational-school programs and commonly share their focus on practical knowledge that has a specific and immediate application in a job environment. There are some technical-certification programs offered entirely online, but the benefits of hands-on training make an in-person class environment start to be more common at this level. Pilots and crew seeking employment with a UAV-oriented business or to establish their own would be candidates for this type of program; the technical certifications would likely be useful in obtaining liability insurance, which a serious commercial drone enterprise would need. Some institutions offer job-placement assistance starting at this level, and if a prospective student has a specific target job in mind, it definitely makes sense to check out what requirements an employer looks for in terms of certification and accreditation.



Relevant schools: Oklahoma State University; Sinclair Community College; Unmanned Vehicle University

PHOTOS COURTESY OF SINCLAIR COMMUNITY COLLEGE



Institution Profile

Sinclair Community College
Dayton, OH sinclair.edu



Located barely 10 miles from Wright-Patterson Air Force Base in the

aviation hub that is Dayton, Ohio, it makes sense that Sinclair would be one of the foremost community institutions specializing in technical certifications and associate degree programs relating to the UAS field. How that came to be illustrates an innovative approach to problem-solving that will serve as an excellent example to students enrolled in the program. Back in 2008, the Dayton area—like many such communities—was in the midst of a significant economic downturn, thanks to the contraction of manufacturing and traditional tech industries. Dr. Andrew Shepherd, director of Sinclair's UAS program, told me how Deb Norris, Sinclair's Senior Vice President for Workforce Development, had come back from a trade conference in Israel impressed by that country's leadership role in UAS development; she recognized that Dayton was well positioned, with its rich aviation tradition, technical infrastructure, and human resources, to excel in the UAS field. Sinclair then made the decision to specialize in UAS and has invested heavily in its UAS program. It went so far as to develop the one-of-a-kind, 40-foot-high, 3200-square-foot Indoor Flying Pavilion specifically for UAV flight training and research. The school also worked with Unmanned Solutions Technology, a local business, to develop a custom mobile ground-control station—essentially, a laboratory and control center on wheels—to support UAS training and research in the field. All of that serves students in any of its several one-year technical-certification programs or its two-year associate degree program.

ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAMS

Think of the programs that confer associate of applied science degrees as those that bridge the gap between technical-certification programs and traditional four-year academic degrees. Community colleges are the most common hosts for associate degree programs, although larger institutions sometimes offer them as well. They can serve as a stand-alone degree, but sometimes the credits can also be applied to a bachelor's program or even transferred to another institution offering a bachelor's program. These programs comprise multiple classes covering a broad range of UAV-related content, from engineering and technical skills to flight training to project management. We've found examples offered in person and online, and an associate degree program typically takes approximately two years to complete.

Relevant schools: Central Oregon Community College; Community College of Beaver County; Sinclair Community College; Troy University

BACHELOR OF SCIENCE DEGREE PROGRAMS

The proliferation of new bachelor's degree programs is the surest sign of the anticipated growth of the UAV field and the professional opportunities it offers. Dozens of universities offer UAS courses as part of their four-year bachelor's programs, and many have expanded their UAS class catalog sufficiently to offer the subject as a concentration or minor. But the most important growth area we've seen is the impressive number of fully accredited institutions—both private colleges and state-level public universities—that now offer degrees specifically in the UAS field. With drones being, by far, the fastest-growing category in the aviation industry, schools are scrambling to develop programs to serve this important technical sector, and the forward-thinking ones are investing to establish themselves as leaders in preparing students for this ever-more-in-demand field. A number of universities have opened multiple tracks within their UAS programs, offering individual focuses on engineering, design, operations, and management. Schools are realizing that most of the specializations available in the full-size aviation industry are applicable to UAVs as well, so look for this trend to only accelerate in the coming years.

Relevant schools: Embry-Riddle Aeronautical University; Indiana State University; Kansas State University Polytechnic Campus; Kent State University; LeTourneau University; Northwest Michigan College; Oklahoma State University; University of Nevada, Reno

Institution Profile

Kansas State University Polytechnic Campus

Salina, KS polytechnic.k-state.edu

Kansas State University is one of a growing category of state schools that have introduced full bachelor's degree programs specializing in UAS as part of its Polytechnic Campus (aka K-State Salina). Dr. Michael Most told me that the origin of his school's UAS program can be traced back to a need to improve emergency response after the extraordinarily destructive tornado outbreak in May 2007. More than 100 storms ripped across the Midwest, including a giant EF5 tornado that destroyed 95 percent of the town of Greensburg, Kansas, and killed 11 residents. In response, Kansas's legislature approved state funds to help develop technology to better deal with such disasters in the future, and K-State Salina's UAS program was founded with a portion of those funds. Of course, the program has grown far beyond that scope in the decade since, and now encompasses full four-year programs, with majors in UAS Flight and Operations and another in UAS Design and Integration. The flight program includes five separate flight-training courses, and graduates receive an FAA Private Pilot license and their Instrument Rating. In addition to the two bachelor's programs, the Polytechnic Campus also conducts several short-term courses, ranging from a single four-hour class on hobbyist-level multirotor safety and flight-techniques course to a comprehensive FAA Part 107 Test Prep as well as one- and two-week flight-training courses.



**KANSAS STATE
POLYTECHNIC**

K-State's program includes training on up to 16 different types of UAV, and the Applied Aviation Research Center flies more than 100 missions a year in conjunction with federal agencies, private-sector companies, and other universities, giving lots of hands-on experience in the field.



COURTESY OF KANSAS STATE UNIVERSITY

GRADUATE-LEVEL PROGRAMS: MASTER'S AND DOCTORAL DEGREES

With the expansion of bachelor's programs across the country, growth within the graduate program segment was an inevitable—and welcome!—next step, which we see already picking up momentum. Look for the number and diversity of master's and doctoral programs to grow even faster in the coming years. Graduates of a bachelor's program can typically complete master's work within two years and doctoral work in perhaps a year more, positioning themselves as prime candidates for top-level job opportunities across the UAS field. Interestingly, when it comes to graduate-level programs, online seems to be as much the norm as in-person classes, so it should be possible for graduates with bachelor's degrees to continue their education with greater flexibility.

Relevant schools: Embry-Riddle Aeronautical University; Oklahoma State University; Unmanned Vehicle University

Institution Profile

Embry-Riddle Aeronautical University
Daytona Beach, FL; Prescott, AZ
erau.edu

No private university embodies more aviation tradition and prestige than Embry-Riddle, and it was one of the first universities to translate its full-size aviation bachelor of science and master of science degree programs into UAS equivalents. Currently, Embry-Riddle offers four such program categories: two each at the bachelor's and master's level. What is interesting is that the school offers both either in person or online and at Embry-Riddle's worldwide campus network. A bachelor's in UAS Science is available at either the Daytona Beach or Prescott campus; the master's in Unmanned & Autonomous Systems Engineering is

available at the Daytona Beach campus only. A bachelor's in UAS Applications and a master's in Unmanned Systems

are available worldwide. The latter two obviously make the programs especially appealing to prospective students who might not have an accredited degree program near where they live. Both sets of programs emphasize not only flight and technical proficiency but also development, application, and management of UAS programs, plus the policies and regulations necessary to stay relevant in the expanding field.



COURTESY OF EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

Institution Profile

Unmanned Vehicle University
Phoenix, AZ
uxvuniversity.com

Unmanned Vehicle University proudly touts itself as the first university to be licensed to grant master's and doctoral degrees in Unmanned Systems Engineering using curriculum delivered totally online, and remains one of very few doctorate-level degrees available in UAS in any form. UVU emphasizes the industry experience of its instructor staff—ranging from military to commercial, adding up to a combined 500 years of UAV operations' experience to draw from—offering students more real-world knowledge than most other institutions of any size. Graduates from these programs will be well positioned to apply for positions as chief engineers, researchers, systems engineers, and engineering managers in the UAV field. In addition to its graduate-level programs,

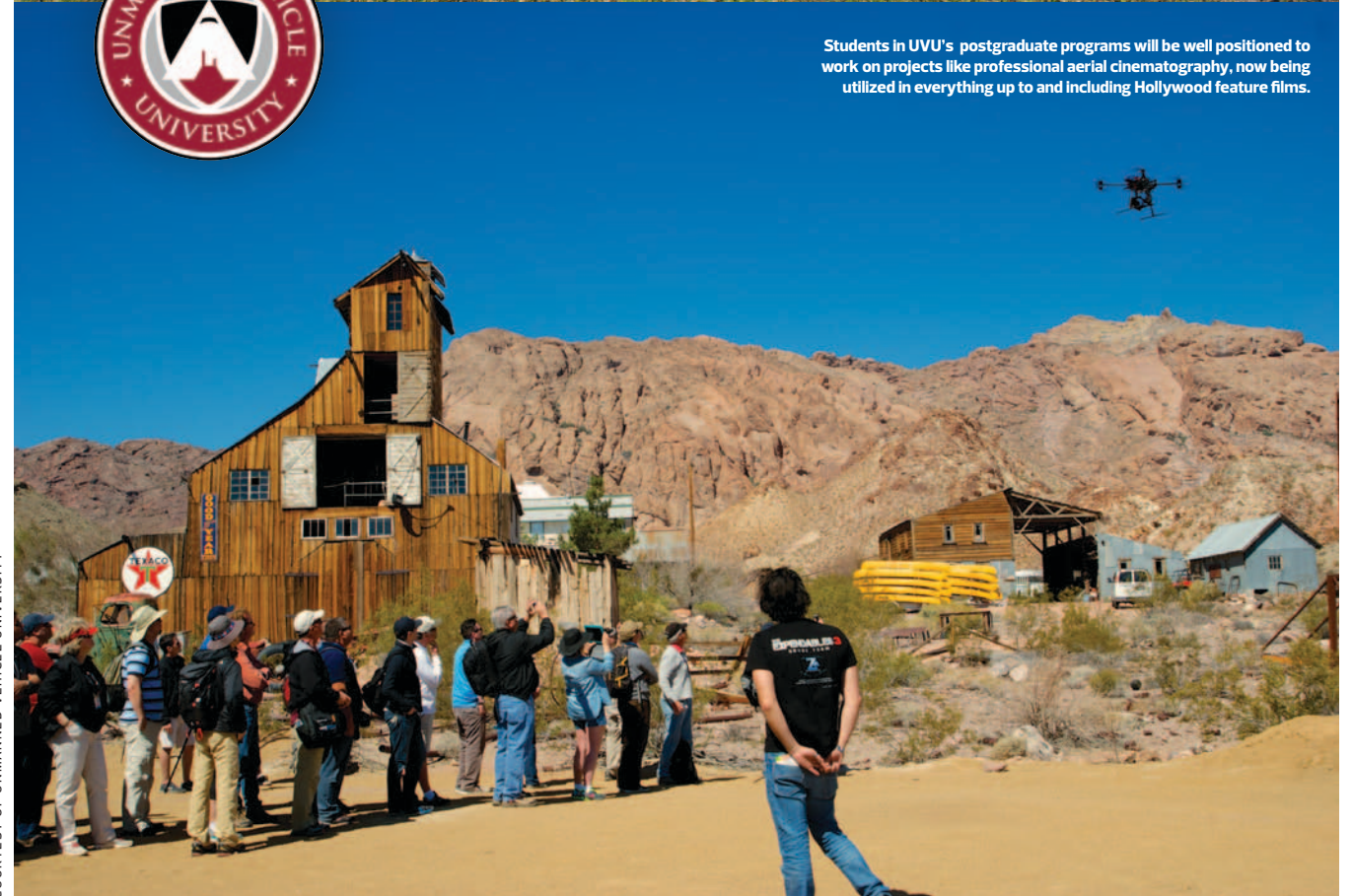


UVU also offers more traditional short-term training courses focusing on flight training and FAA Part 107 test prep as well as technical-certification programs for UAS Project Management.

COURTESY OF UNMANNED VEHICLE UNIVERSITY



Students in UVU's postgraduate programs will be well positioned to work on projects like professional aerial cinematography, now being utilized in everything up to and including Hollywood feature films.



Drone Education Programs by Category

| INSTITUTION | CATEGORY | PROGRAM NAME | LOCATION | TYPE OF ATTENDANCE | LENGTH | ESTIMATED COST | PREREQUISITES | TYPE OF CERTIFICATION UPON COMPLETION | SHORT URL |
|--------------------------------------|-----------------------------|--|--|---------------------|--|---|--|--|----------------------------------|
| Academy of Model Aeronautics | Test prep | FAA Part 107 Preparatory Course | Various | Online | 4-6 hours | \$249 (\$174 for AMA members) | None | FAA Part 107 Certificate | fly-robotics.com/ground-school |
| Eye In The Sky UAS Training Academy | Test prep | FAA Part 107 Test Prep | Nevada Institute of Autonomous Systems (NIAS), ND, NV, and TX Test Sites | In person | 3 days | NA | None | Certificate of Completion | eyeintheskyuas.com |
| Kansas State University | Test prep | sUAS Commercial Pilot Training (Part 107) | K-State Polytechnic Campus, Salina, KS | In person | 5 days (40-hour course) | \$1,400 | None | FAA Part 107 Certification | polytechnic.k-state.edu |
| Monroe Community College | Test prep | Remote Pilot Knowledge (FAA Part 107) Test Preparation Class | Rochester, NY, campus | In person | 6 hours (2x 3-hour evening classes) | \$495, plus test fee | None | FAA Part 107 Certification | monroecc.edu |
| Northwest Michigan College | Test prep | Remote Pilot Ground School and FAA Test Prep | Traverse City, MI, campus | Online | Self-paced | \$299 | None | UAS Operator Certification | nmc.edu/drone |
| Northwest Michigan College | Test prep | Remote Pilot Ground School and FAA Test Prep with Individual Instruction | Traverse City, MI, campus | Online | 10 hours, plus self-paced | \$599 | None | UAS Operator Certification | nmc.edu/drone |
| Academy of Model Aeronautics | Seminar/Short-term training | UAS 4 Public Safety Course | Various | In person or online | 3 days | \$1,295 | Public Safety Officers | FAA Part 107 Certificate | fly-robotics.com/public-safety-2 |
| Academy of Model Aeronautics | Seminar/Short-term training | UAS4STEM Search & Rescue Challenge | Various | In person or online | Self-paced | \$2,495 | Middle/High school + adult sponsor | FAA Part 107 Certificate | uas4stem.org |
| Aviation Seminars | Seminar/Short-term training | UAS/UAV/Drone Ground School | 55 cities across the U.S. | In person | 2 days | \$429 | None | Certificate of Completion | avsem.com |
| Drone University USA | Seminar/Short-term training | Specialized Training Courses in Agriculture Aerial Vegetation Management, First Responder/Search and Rescue, and Commercial Disaster Preparedness/Response | Sacramento, CA | In person | 1 day (8 hours) each | \$1,299 each | None | Technical Certificate | droneuniversityusa.com |
| Drone University USA | Seminar/Short-term training | Small UAV/Drone Advanced Aerial Cinematography Training Course | Sacramento, CA | In person | 2 days (16 hours) | \$1,599 | Requires that students own equipment and have basic flying skills | Technical Certificate | droneuniversityusa.com |
| Drone University USA | Seminar/Short-term training | Small UAV/Drone Commercial, Remote Pilot Training & Certification Course | 20 affiliate campuses through Tesla Foundation | In person | 2 days (16 hours) | \$2,199 | | Technical Certificate | droneuniversityusa.com |
| Eye In The Sky UAS Training Academy | Seminar/Short-term training | Training Courses in Fixed-Wing UAS, Rotary UAS, and Hybrid UAS | Reno, NV (Silver Springs Airport); Alamosa, CO (Leech Airport); Carrabelle, FL, PA; and MI | In person | 5 days | NA | None | Certificate of Completion | eyeintheskyuas.com |
| Indiana State University | Seminar/Short-term training | FAA Part 107 Course | Terra-Haute, IN | In person | 2-day seminar | \$120 | None | FAA Part 107 Certificate | indstate.edu/technology/ums |
| Indiana State University | Seminar/Short-term training | First-Responder Training | Terra-Haute, IN | In person | 2-week training class | NA | None | NA | indstate.edu/technology/ums |
| Kansas State University | Seminar/Short-term training | sUAS Fixed-Wing or Multirotor Course | K-State Polytechnic Campus, Salina, KS | In person | 5 to 9 days (40-72 hours) | \$3,100 to \$4,500 | FAA Part 107 certificate | Kansas State University Fixed-Wing Course Achievement Certification | polytechnic.k-state.edu |
| Kansas State University | Seminar/Short-term training | sUAS Multirotor Hobbyist Course | K-State Polytechnic Campus, Salina, KS | In person | 1/2 day (4-hour course) | \$200 | Under age of 14 must have permission of parent or guardian | NA | polytechnic.k-state.edu |
| Monroe Community College | Seminar/Short-term training | Introduction to Small Unmanned Aerial Systems/Learn to Fly (sUAS) | Rochester, NY, campus | In person | 12 hours (4x 3-hour evening classes) | \$995 | None | Training Certificate of Completion | monroecc.edu |
| Monroe Community College | Seminar/Short-term training | Introduction to Small Unmanned Aerial Systems--Public Safety (sUAS) | Rochester, NY, campus | In person | 16 hours (2x 8-hour day sessions) | \$1,350 | Open to public-safety personnel | Training Certificate of Completion | monroecc.edu |
| National Drone School | Seminar/Short-term training | Online UAV Flight Training Course | Online | Online | Own pace | \$199 | None | Certificate | nationaldronetraining.com |
| University of Nevada, Reno | Single course | UAS Flight Coordinator Course | Reno, NV, campus | In person | 3 credits/1 semester | Varies | Undergraduate junior or senior | NA | unr.edu |
| Unmanned Vehicle University | Seminar/Short-term training | UAV Pilot Training Program | Phoenix, AZ | Online | 52 hours | \$3,500 | 16 years of age | Certificate of Completion | uxvuniversity.com |
| Oklahoma State University | Technical certification | Unmanned Pilot | Stillwater, OK, campus | In person or online | NA | Varies | Varies | Technical Certificate--Unmanned Pilot | unmanned.okstate.edu |
| Sinclair Community College | Technical certification | UAS First Responder, Geographic Information Systems, and Precision Agriculture Certification | Dayton, OH, campus | In person | 32 weeks (16 credit hours) | \$1,684 + \$720 books/supplies | None | Technical Certificate | sinclair.edu |
| Sinclair Community College | Technical certification | Unmanned Aerial Systems | Dayton, OH, campus | In person | 1 year (33 credit hours) | \$3,417 + \$1,485 books/supplies | None | Technical Certificate | sinclair.edu |
| Unmanned Vehicle University | Technical certification | UAS Project Management | Phoenix, AZ | In person | 16 credit hours (4x 4-credit courses) | \$400/credit (\$6,400 total) | High-school degree or equivalent | Certificate of Completion | uxvuniversity.com |
| Central Oregon Community College | Associate degree | Unmanned Aerial Systems | Bend, OR, campus | In person | Multiclass degree; 95 credits | \$93 to \$256/credit | None | Associate of Applied Science | cocc.edu |
| Community College of Beaver County | Associate degree | Unmanned Aerial Vehicle | Monaca, PA, campus | In person | 2 years (65 credit hours) | Varies | NA | Associate of Applied Science | ccbc.edu/UAV |
| Sinclair Community College | Associate degree | Unmanned Aerial Systems | Dayton, OH, campus | In person | 2 years (62 credit hours) | Varies | NA | Associate of Applied Science | sinclair.edu |
| Troy University | Associate degree | Unmanned Aerial Systems | Troy, AL | Online | 6 classes (2 per semester) | \$338/credit | NA | Associate of Applied Science (also a bachelor's degree minor) | spectrum.troy.edu/uas |
| Embry-Riddle Aeronautical University | Bachelor's degree | Unmanned Aircraft Systems Science | Daytona Beach, FL, and Prescott, AZ, campuses | In person | 122 credits (4 years) | Varies | Embry-Riddle admission standards | Bachelor of Science | erau.edu |
| Embry-Riddle Aeronautical University | Bachelor's degree | Unmanned Aircraft Systems Applications | Worldwide campuses and online | Regional and online | 120 credits (4 years) | Varies | Embry-Riddle admission standards | Bachelor of Science | erau.edu |
| Indiana State University | Bachelor's degree | Unmanned Systems Technology | Terra-Haute, IN | In person | 4 years | Varies | Indiana State admission standards | Bachelor of Science | indstate.edu/technology/ums |
| Kansas State University | Bachelor's degree | UAS Design and Integration or Flight and Operations specializations | K-State Polytechnic Campus, Salina, KS | In person | 4 years | \$357.50/credit (KS resident); \$828/credit (nonresident) | K-State admission standards | Bachelor of Science (Flight Ops specialization also receives FAA Private Pilot License with Instrument Rating) | polytechnic.k-state.edu |
| Kent State University | Bachelor's degree (minor) | Unmanned Aircraft Systems | Kent, OH, campus | In person | 16 credits minimum, 11 classes offered | Varies | NA | Bachelor of Science (Minor) | kent.edu/caest |
| LeTourneau University | Bachelor's degree | Remotely Piloted Aircraft Systems: Electronics (ARVE), Pilot (ARVP), or Technician (ARVT) Concentrations | Longview, TX, campus | In person | 4 years (126 to 132 credit hours) | \$27,930/year | Varies | Bachelor of Science | letu.edu |
| Northwest Michigan College | Bachelor's degree (minor) | Unmanned Aerial Systems (UAS, UAS 1, UAS 2) | Traverse City, MI, campus | In person | 4 years | Varies | NA | Bachelor of Science (minor) | nmc.edu |
| Oklahoma State University | Bachelor's degree | Unmanned Pilot | Stillwater, OK, campus | In person or online | 4 years | Varies | Varies | Bachelor's degree--Unmanned Pilot | unmanned.okstate.edu |
| University of Nevada, Reno | Bachelor's degree (minor) | Unmanned Autonomous Systems | Reno, NV, campus | In person | 18 credits (six 3-credit courses) | Varies | NA | Bachelor of Science (minor) | unr.edu |
| Embry-Riddle Aeronautical University | Master's degree | Unmanned & Autonomous Systems Engineering | Daytona Beach, FL, campus | In person | 1.5 to 2 years (30 credit hours) | Varies | Bachelor's degree | Master of Science | erau.edu |
| Embry-Riddle Aeronautical University | Master's degree | Unmanned Systems | Worldwide campuses and online | Regional and online | 1.5 to 2 years (36 credit hours) | Varies | Bachelor's degree | Master of Science | erau.edu |
| Oklahoma State University | Master's degree | Unmanned Systems Engineering | Stillwater, OK, campus | In person | 1.5 to 2 years | Varies | Bachelor's degree | Master's degree in Unmanned Aircraft Systems Engineering | unmanned.okstate.edu |
| Unmanned Vehicle University | Master's degree | Unmanned Systems Engineering | Phoenix, AZ | Online | 1.5 to 2 years (36 credit hours) | \$400/credit (\$14,400 total) | Bachelor's degree in any field from an accredited college/university | Master's degree in Unmanned Systems Engineering | uxvuniversity.com |
| Oklahoma State University | Doctoral degree | Unmanned Systems Engineering | Stillwater, OK, campus | In person | 3 years | Varies | Bachelor's degree | Doctoral degree in Unmanned Aircraft Systems Engineering | unmanned.okstate.edu |
| Unmanned Vehicle University | Doctoral degree | Unmanned Systems Engineering | Phoenix, AZ | Online | 3 years (60 credit hours) | \$400/credit (\$24,000 total) | Bachelor's degree in any field from an accredited college/university | Doctoral degree in Unmanned Systems | uxvuniversity.com |

Please note that while the information on this chart was accurate to the best of our knowledge at time of publication, schools change program details frequently. Check with a specific institution for its most up-to-date program info.