



Join the next **revolution** in flight!

Take the controls and become a part of the technical innovation driving this incredible advance in personal and commercial flight technology, as drones reinvent everything from commercial inspection to real-estate marketing, surveying and mapping, military surveillance and even light shows and entertainment. Drone pilots, programmers and technicians are expected to be in increased demand, and those with training and certification will be at a distinct advantage, as this rapidly growing field expands into many new areas of science, technology and commerce.

COURSE TITLE: DRONE TECHNOLOGY

COURSE DESCRIPTION

Take the controls and become part of the technical innovation driving this incredible advance in personal and commercial flight technology. Drone Technology has the capacity to reinvent everything from commercial inspection to real estate marketing, surveying and mapping, military surveillance and even light shows and entertainment. As the demand for drone pilots, programmers and technicians increases, those with training and certification will be at a distinct advantage as this rapidly growing field expands into many new areas of science, technology and commerce.

Currently, the Federal Aviation Administration (FAA) allows for commercial use of drones. However, the FAA has released regulations which are expected to allow for much broader commercial use and will require pilots using unmanned aerial vehicles for commercial purposes to obtain certification of training or competence. Anticipating the commercial demand for drone training, this program will provide skills on piloting, engineering, programming and repairing drones.

COURSE CONTENT

- Program and operate robotic hardware and software
- Assemble robotic hardware
- Analyze programming used in robotics
- Autonomous and non-autonomous robots
- Laws of physics
- Programming controllers
- Installation and programming of sensors
- Controllers and drones
- Disassembly of drones and deprogramming controller

EDUCATIONAL OPPORTUNITIES

- Advanced College Standing
- Two-Year Technical College
- Associate Degree or Certificate

CAREER OPPORTUNITIES

- Aeronautics
- Agriculture
- Construction Inspection
- Law Enforcement/Military – Search and Rescue
- Photography and Cinematography
- Real Estate

SUGGESTED SUPPORTIVE COURSES

- Physics, Computer Programming

ADDITIONAL INFORMATION

- RELATED COURSES Aviation/Professional Pilot Training, Engineering
- COSTS Personal Tools, Uniform, and Supplies \$200
- LENGTH OF COURSE..... 1 or 2 years
- LOCATION Gary D. Bixhorn Technical Center
- INDUSTRY CERTIFICATION FAA Drone Pilot Certification for Commercial Use
- CTE/ACADEMIC CREDIT Pending