

UNMANNED SYSTEMS TECHNOLOGY

The rapidly growing field of Unmanned Systems Technology (UST) enables students to gain knowledge and skills as an advanced drone operator, first responder specialist, unmanned systems technician, or GIS/unmanned Systems Specialist. This program prepares students for entry and advancement within the unmanned systems technology workforce (aerial, land, and water vehicles/robotics) field and to pilot unmanned aircrafts for private and commercial industries. The program also requires students to make reasonable predictions of how the current unmanned systems technology will integrate into existing careers.

Degrees

- Unmanned Systems Technology - AAS (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/unmanned-systems-technology-aas/>)
 - Advanced Drone Operator Track (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/unmanned-systems-technology-aas/#advanceddroneoperatortrack>)
 - First Responder Specialist Track (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/unmanned-systems-technology-aas/#firstresponderspecialisttrack>)
 - Unmanned Systems Technician Track (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/unmanned-systems-technology-aas/#unmannedsystemstechniciantrack>)
 - GIS/Unmanned Systems Specialist Track (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/unmanned-systems-technology-aas/#gisunmannedsystemsspecialisttrack>)

Certificates

- Basic Drone Operator Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/basic-drone-operator-certificate/>)
- Drone Operator Specialist - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/drone-operator-specialist-certificate/>)
- First Responder Specialist - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/first-responder-specialist-certificate/>)
- GIS/Unmanned Systems Specialist - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/gisunmanned-systems-specialist-certificate/>)
- Remote Drone Pilot - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/remote-drone-pilot-certificate/>)
- Visual Observer - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/unmanned-systems-technology/visual-observer-certificate/>)

UST Electives

Course	Title	Credits
CAD 100	Introduction to Computer Aided Design	3
CIT 105	Introduction to Computers	3
CIT 111	Computer Hardware and Software	4
CIT 125	Intro to Digital Maps	3
CIT 160	Intro to Networking Concepts	4
CIT 225	GIS Data Analysis	3
CRJ 100	Introduction to Criminal Justice	3
DPT 100	Introduction to 3D Printing Technology	3
DPT 102	3D Printing Technology Fundamentals	2
DPT 150	Introduction to Engineering Mechanics for 3D Printing	3
DPT 280	Special Projects for 3D Printing, Level I	1
EET 270	Electrical Motor Controls I	2
EET 271	Electrical Motor Controls I Lab	2
ELT 110	Circuits I	5
GIS 145	Remote Sensing	3
GIS 255	Geospatial Programming	3
GIS 260	Geospatial Web Mapping	3
UST 100	Intro to Unmanned Systems Technology	3
UST 102	UST Career Exploration	1
UST 105	Unmanned Systems Safety and Regulations	3
UST 107	Commercial Drone Operations	3
UST 170	Drone Media Applications	3
UST 200	Drone Fabrication and Repair	4
UST 210	Visual Observer Operations	2
UST 211	Night Time VO Operations	2
UST 220	First Responder Applications	2
UST 221	Crew Resource Management	1
UST 290	UST Flight Mastery	1-3
UST 291	Selective Topics in UST	1-3
UST 295	UST Learning Experience	1-6

Other General Education courses that can be taken as UST electives:

Course	Title	Credits
ECO 201	Principles of Microeconomics	3
ENG 102	Writing II	3
MAT 155	Trigonometry	3
PHY 151	Introductory Physics I	3
STA 220	Statistics	3

Any course from the UST electives list can be used as an elective if not already required in the certificate.

Other courses may be approved as UST Electives as approved by the program coordinator.