

LIDAR ACQUISITION TECHNICIAN CERTIFICATE

Division: Technology and Engineering

PROGRAM CODE: 2C46123

The LiDAR Acquisition Technician Certificate prepares students to become skilled professionals in acquiring and processing LiDAR data using cutting-edge drone technology. This program combines technical knowledge with practical experience to equip students with the skills needed to succeed in a variety of industries, including construction, environmental monitoring, surveying, forestry, and infrastructure management. Upon completion, students will have the expertise to capture accurate LiDAR data and translate it into actionable insights for diverse applications. This certificate requires a total of 14-15 units. A grade of C or better is required in each course taken.

| Code | Title | Units |
|--|--|--------------|
| Required Courses (11-12 Units): | | |
| DRON 101 F or DRON 105 F | Basic Drone Piloting Applied Drone Piloting | 2-3 |
| DRON 130 F | Aerial Mapping and Photogrammetry | 3 |
| DRON 170 F | Introduction to LiDAR Acquisition | 3 |
| DRON 270 F | Advanced LiDAR Acquisition | 3 |
| Restricted Electives (3 units): | | |
| AJ 230 F | Crime Scene Techniques | 3 |
| ARCH 111 F | Introduction to Architecture | 3 |
| DART 104 F | Introduction to Maya 3D | 3 |
| ESC 100 F | Physical Geology | 3 |
| GEOG 230 F | Introduction to Geographic Information Systems (formerly GEOG 281AF) | 3 |
| Total Units | | 14-15 |

Program Level Student Learning Outcomes

Outcome 1: Demonstrate proficiency in operating drones for LiDAR data acquisition while adhering to safety protocols and regulatory requirements.

Outcome 2: Apply LiDAR data processing techniques to generate accurate models and visualizations for industry-specific applications.

Outcome 3: Analyze and interpret LiDAR data to address real-world problems in industries such as construction, environmental monitoring, and infrastructure management.

https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=1566