

Civil Engineering Technology

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The Civil Engineering Technology Department offers a bachelor's degree program in construction management, a Bachelor of Technology degree program in construction supervision, as well as an associate degree program in construction engineering technology. Additionally, it offers an associate in surveying engineering technology and a bachelor's in surveying and geomatics engineering technology.

MISSION

Provide graduates with the skills necessary to have a successful career in their chosen field, have a better understanding of the world we live in, and improve their own lives.

FACILITIES

- **Joe Laraiso Construction & Geomatics Lab** – This state of the art software lab is equipped with 20 computer work stations arranged in a true team environment to enhance our project based learning. Construction students use estimating, scheduling and project administration software in conjunction with real plans and specifications, performing tasks required on jobsites. The lab is also conducive to Lean Last Planner System planning. Surveying & Geomatics students have access to full-scale Carlson software to perform industry standard mapping tasks. All civil engineering technology department students benefit from AutoCAD and Revit software to create 2D and 3D models of sites and the built environment.
- **Doc Bruce Construction Materials Lab** – This lab provides a meaningful experience in laboratory and field testing of various construction materials and structural systems. The equipment enables students to learn procedures that meet recognized field testing procedures of the American Concrete Institute (ACI), the American Society for Testing and Materials (ASTM), and NYS Asphalt Testing Certification.
- **The National Fuel Construction Management Student Conference Room** - Student conference room for group work on project based learning activities. This room is equipped with large format wall monitor, wifi, and whiteboard to facilitate group work. In addition, it is available for employers to conduct interviews and students participate in virtual interviews with employers.
- **Surveying Computations Laboratory** – The surveying computations lab contains work stations, digitizers, and overhead projection systems. It is designed to support the 'field-to-finish' concept of surveying data collection, data reduction, and analysis, as well as computer-aided drafting and design. Students use this facility to work with land development and design software, geographic information system software, and the reduction of satellite data. This lab enables students to do word processing, spreadsheet analysis, programming, data analysis, networked computer-aided design and drafting, and advanced 3-D modeling.
- **Surveying Laboratory and Equipment Room** – The surveying lab serves as the basic laboratory/lecture area for surveying field/design projects. Adjacent to this lab is the room housing a myriad of equipment, including electronic total stations, global positioning satellite equipment, theodolites, transits, and levels.

Please note: Students are required to have laptops. The laptops allow students wireless access to the college network from any location on campus. <https://www.alfredstate.edu/required-laptops>

DEPARTMENT PROGRAMS

Civil Engineering Technology (BS)
Construction Engineering Technology (AAS)
Construction Management (BS)
Construction Supervision (BTech)
Surveying Engineering Technology (AAS)
Surveying and Geomatics Engineering Technology (BS)