CONSTRUCTION MANAGEMENT TECHNOLOGY

Overview

Degrees Offered: AAS
Program Begins: Fall (Preferred), Spring
Delivery Method: On Campus
Phone: 701-224-5651 • 800-852-5685
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Description

The Construction Management Technology program equips students with the skills to lead and manage construction projects from start to finish. Students will gain a strong understanding of building systems, methods of construction, construction documentation, estimating, planning and scheduling, and inspection. Graduates will be prepared for immediate employment in a variety of construction related job titles in the heavy construction, commercial construction, and residential construction fields.

Preparation

Students considering Construction Management Technology should have good reading comprehension and an interest in applied mathematics. Helpful background includes high school algebra, computer literacy, technology, and/or construction. Continuing education is common to keep up with changes in technology and construction methods.

Requirements

Students who complete the curriculum requirements earn an Associate in Applied Science degree in Construction Management Technology.

Students should be able to perform laboratory exercises inside or outside during the school year and be able to lift light equipment and material loads.

Although there are computer labs on campus for instructional and lab use, students may wish to own or have access to a personal computer to use outside of class or available lab times. For many of the program courses, students can download full or academic versions of the software used in class for little to no cost from the software companies. However, students should be aware that personal computers used for this purpose should be Windows based and have sufficient speed and storage capacity since the software is very hardware and memory intensive. Please refer to the recommended computer hardware requirements linked on the program webpage on the Bismarck State College website.

Career Opportunities

The Construction Management Technology program prepares graduates for immediate employment as construction managers, cost estimators, project inspectors, and a variety of related positions in the construction industry. Potential employers include construction firms for all sectors of construction, utilities, material suppliers, and engineering firms, to name a few.

Additional Information

Students may be interested in exploring related degree programs and pathways to enhance their education and options. These include the Unmanned Aerial Systems Certificate of Completion and the Civil Engineering Technology Certificate. If interested, students should visit with their advisor to discuss degree and schedule options.

Degree Plans

- Construction Management Technology Associate in Applied Science

Program Learning Outcomes

Upon graduation, Construction Management Technology students will be able to:

- **Apply Core Construction Management Principles:** Demonstrate the ability to apply fundamental construction management concepts, including estimating, scheduling, and project delivery methods, to support successful project completion.
- **Interpret and Communicate Construction Diagrams:** Accurately read, interpret, and communicate information from construction diagrams and technical drawings for residential, commercial, and industrial projects.
- **Ensure Construction Site Safety and Compliance:** Identify potential hazards, apply industry-standard safety practices, and comply with OSHA regulations, culminating in the successful attainment of the OSHA 30 credential.
- **Utilize Modern Tools and Technologies:** Apply software tools and technology for construction planning, scheduling, estimating, and surveying to enhance project efficiency and accuracy.

- **Demonstrate Knowledge of Construction Methods and Materials:** Analyze and evaluate the properties, applications, and sustainability of various construction materials, methods, and mechanical systems in alignment with industry standards.