Goals for graduating students

Evaluate and **apply knowledge** gained in construction methods, materials, codes, specifications, and plan reading to electrical construction projects.

*Evaluate, analyze, and synthesize a design **business plan** using knowledge gained from both technical construction and administrative courses.*

Identify and solve problems using construction estimating and project management software programs, CAD software, Microsoft Word, Excel, and PowerPoint.

***Estimate and schedule** an electrical construction project using information from architectural blueprints.*

Develop, produce, and present a proposal for an **electrical construction plan** from concept through completion to a board of industry professionals.

*Understand the ethical, professional, and social **responsibilities** of an electrical construction professional.*

Communicate effectively, clearly, and precisely while conducting electrical construction business as an individual or as part of a team.

*Use **teamwork and leadership skills** to seek and share knowledge and perform creatively and effectively.*

Visualize the final product before the conceptual plan is developed.

*Gather, analyze, synthesize, and apply research to effectively become a **productive member** of the electrical construction industry.*

To learn more about NJATC college degree programs, contact any of these individuals:

David Hatfield, director
Construction Programs
MTSU Box 153
Murfreesboro, TN 37132

(615) 898-2781
dhatfiel@mtsu.edu

Rick Hecklinger
National Joint Apprenticeship and Training Center

(301) 715-2300
rickh@njatc.org

Chuck Wright
Professor, Mechanical Engineering Technology
Pellissippi State Technical Community College
10915 Hardin Valley Rd.
Knoxville, TN 37933

(865) 694-6511

MIDDLE TENNESSEE STATE UNIVERSITY

MIDDLE TENNESSEE STATE UNIVERSITY

NJATC Online College Degree Program

Electrical Construction Management Concentration

Engineering Technology Department

Bachelor of Science Degree

Major in Construction Management

The **Electrical Construction Management concentration** within the Construction Management major is designed to prepare students for staff or supervisory positions in electrical construction and related fields such as electrical contracting, purchasing, estimating for electrical contractors, electrical materials and equipment supply, the prefabricated housing industry, electrical codes inspection*, and mechanical contracting. The degree is designed to teach electrical theory and practice in tandem with construction topics, codes, methods, law, materials, and management practices. **The program is accredited** by the Association of Technology, Management, and Applied Engineering (ATMAE).

**Additional state requirements beyond the degree are required.*

General Education

All candidates for baccalaureate degrees must meet general education requirements regardless of the department or college in which they pursue their majors. These requirements total **41 semester hours** in Communication, Humanities and/or Fine Arts, Social/ Behavioral Sciences, Natural Sciences, Mathematics, and History. To graduate, students must complete **120 semester hours** with a cumulative grade point average of 2.0 and have a 2.0 GPA in all Construction Management courses.

Core Curriculum for the Bachelor of Science in Construction Management

In addition to general education requirements, students in Engineering Technology concentrations must complete the following:

CMT 4010 Construction Law
ET 2310 Computer-Assisted Drafting/Design I
ET 3910 Introduction to Operations Management
ET 4420 Industrial Safety
ET 4710 Professional Development Seminar *

Electrical Construction Management (ECM) Concentration Courses

CMT 3155 Land Development and Residential Building
CMT 3210 Residential Codes, Regulations, Specifications, and Plan Reading *
CMT 4120 Scheduling
CMT 4130 Construction Administration
CMT 4172 Capstone for Electrical Construction Management
ET 3610 Introduction to Electricity and Electronics *
ET 3620 Digital Circuits Fundamentals **
ET 3630 Electronics *
ET 4600 Programmable Logic Controllers *
ET 4610 Instrumentation and Controls **
ET 4640 Industrial Electricity *

ECM Supporting Courses

ACTG 3000 Survey of Accounting for General Business
INFS 2200 Introduction to Microcomputing
MATH 1530 Applied Statistics
MATH 1710 College Algebra
SPAN 1010 Elementary Spanish I
ET 3920 Industrial Internship I *
ET 3930 Industrial Internship II *
ET 4970 Engineering Economy
or
ET 4915 Technical Project Management and Soft Skills

** Students will be given credit for these courses the semester they graduate from MTSU if they have completed a four- or five-year NJATC apprenticeship.*

*** AC/DC circuits and electronics courses must be completed in the NJATC apprenticeship before enrolling in ET 3620 or ET 4610 at MTSU.*

For more information

Admission standards for the Construction Management program are the same as admission requirements for Middle Tennessee State University. If you have questions, contact

Dr. David Hatfield
MTSU Box 153
1301 East Main St.
Murfreesboro, TN 37132
(615) 898-2781
dhatfiel@mtsu.edu

MTSU Admissions
(615) 898-2111
1-800-331-MTSU (in state)
1-800-433-MTSU (out of state)
www.mtsu.edu/admissn

Fees/Financial Aid

For information about tuition and fees, call the MTSU Business Office at (615) 898-2761.

For information about scholarships and grants, call the MTSU Financial Aid Office at (615) 898-2830.

www.mtsu.edu