Graduating students should be able to

1. Demonstrate an ability to apply knowledge of mathematics, science, and applied science to a construction-related topic.

2. Demonstrate an ability to analyze and interpret data applied to a construction design problem or experimental design concept.

3. Demonstrate an ability to formulate or design a system, process, or program to meet a desired need.

4. Demonstrate an ability to function within the industry as an individual and as a part of a multidisciplinary team.

5. Demonstrate an ability to solve industry-related problems.

6. Demonstrate an understanding of professional and ethical responsibility.

7. Demonstrate an ability to communicate effectively.

8. Complete a broad-based education necessary to develop an understanding of the impact of decisions and solutions in a global or societal context.

9. Develop an understanding for the need for and the ability to engage in lifelong learning.

10. Develop a knowledge of contemporary issues affecting the construction industry.

11. Develop an ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice.
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:

- ET 2310 Computer-Assisted Drafting/Design I
- ENGR 3920 Engineering Safety

Electrical Construction Management (ECM) Concentration Courses
- CMT 1100 Introduction to Construction Systems
- CMT 3155 Land Development and Residential Building
- CMT 3160 Cost Estimating I
- CMT 3210 Residential Codes, Regulations, Specifications, and Plan Reading
- CMT 4010 Construction Law
- 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
- ENGR 3970 Engineering Economy
- ENGR 3915 Technical Project Management and Soft Skills

The department and community
The Engineering Technology Department offers preparation for a wide range of technical and managerial positions in industry and engineering technology. Through nationally accredited programs, a project-based learning environment, and extensive collaboration with industry, the department helps students acquire the technical and scientific knowledge base required for success in their chosen fields. MTSU's spacious, 500-acre campus features modern buildings existing harmoniously with historic structures. Renovated residence halls, a computerized state-of-the-art library, a large recreation center, and campus-wide computer access support solid academic programs for more than 25,000 students. Individual help and attention from faculty members is an important aspect of MTSU's educational philosophy. Murfreesboro is at the geographic center of Tennessee and is only thirty miles from Nashville, the state capital. Restaurants, shopping centers, and lovely natural areas have attracted business and commerce and contributed to the area's live ability.

For more information
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Admissions Office
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Murfreesboro, TN 37132
(615) 898-2781
www.mtsu.edu/admissn
david.hatfield@mtsu.edu

Fees/Financial Aid
For information about tuition and fees, call the Business Office at (615) 898-2761. For information about scholarships and grants, call the Financial Aid Office at (615) 898-2830.
www.mtsu.edu

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