

# POSTSECONDARY OPPORTUNITIES

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# POSTSECONDARY OPPORTUNITIES IN CONSTRUCTION

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- Tennessee College of Applied Technology, Memphis
- Middle Tennessee State University, Murfreesboro
- The University of Memphis



TENNESSEE COLLEGE  
OF APPLIED TECHNOLOGY  
— MEMPHIS —

# CAMPUS LOCATION

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- Main Campus  
550 Alabama Ave.  
Memphis, TN 38105

# BUILDING CONSTRUCTION TECHNOLOGY

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- The mission of the Building Construction Technology is to provide theory and hands-on training that will qualify students for employment or advancement in building construction. Students erect framework including subflooring, sheathing, partitions, floor joists, studding and rafters. The curriculum also includes building preparation for trimming, installing molding, wood paneling, window sash, door frames, doors and hardware, as well as building stairs and laying floors.



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**Information**

Time Commitment

Typical Program Length

Clock Hours

Class Type

Credentials

Total Tuition/Fees

Textbook/Supplies Cost

**Detail**

Full Time

20 Months

2,160

Day

Certificate, Diploma

\$6,230.00

\$1,501.24

# PROGRAM CREDENTIALS

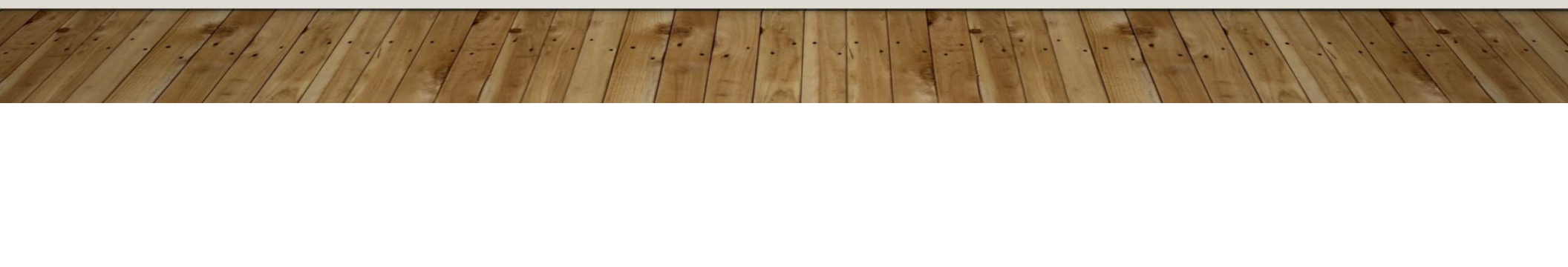
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<b>Option Name</b>	<b>Hours</b>	<b>Credentials</b>
Carpenter Helper	432	Certificate
Mason Helper	432	Certificate
Plumbing Helper	432	Certificate
Electrician Helper	432	Certificate
Framing Carpenter	1296	Diploma
Finish Carpenter	2160	Diploma

# JOB DUTIES

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- **Carpenter Helper**

- Perform tasks involving physical labor at construction sites.
  - May operate hand and power tools of all types air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments.
  - May clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding, and clean up rubble, debris and other waste materials.
  - May assist other craft workers.
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# JOB OUTLOOK

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- Bright Outlook: Yes
- Currently employed in the area: 23,320
- Current job openings per year: 860

# INSTRUCTOR

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- Brad Kerley
- [brad.kerley@tcatmemphis.edu](mailto:brad.kerley@tcatmemphis.edu)
- 901-543-6934

MIDDLE TENNESSEE STATE UNIVERSITY

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# MIDDLE TENNESSEE STATE UNIVERSITY

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- Middle Tennessee State University
- 1301 East Main Street
- Murfreesboro, TN 37132-000
- 615-898-2300

# BACHELOR OF SCIENCE DEGREE

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- B.S. with a concentration in:
  - Commercial Construction Management
  - Electrical Construction Management
  - Land Development/Residential Building Construction Management

# ARCHITECTURE

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- Students interested in studying architecture may take a set of courses that allows completion of up to 24 general education hours commonly found in accredited architecture programs, but it is necessary to transfer to another university to complete a degree in architecture.
- There is an undergraduate minor in Construction Management.

# CONCRETE INDUSTRY MANAGEMENT

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- Another major in the School of Concrete and Construction Management leading to a B.S. degree is [Concrete Industry Management](#).
- Majors choose between two concentrations: Concrete Contracting or Production, Sales, and Service.

# CONCRETE INDUSTRY MANAGEMENT

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- Working with the paving industry, the School of Concrete and Construction Management has developed a certificate program in Road Construction Technology and anticipates considering applicants for this program in 2017.
- Graduate students can pursue a [Master of Business Administration \(M.B.A. degree\) in Concrete Industry Management](#) with five years of work experience required (degree offered in conjunction with the Management Department in the Jones College of Business).



# CONSTRUCTION MANAGEMENT

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- The Construction Management major is a broad-based program designed to prepare students for positions in the construction industry.
- Corporate and private construction companies seek graduates to fill job positions in the field and in management.

# CONSTRUCTION MANAGEMENT

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- Students may select from three concentrations:
  - Land Development/Residential Building Construction Management
  - Electrical Construction Management
  - Commercial Construction Management
- The merging of a strong technical background with the ability to lead personnel and manage systems produces a graduate who is invaluable to the construction industry.

# ELECTRICAL CONSTRUCTION MANAGEMENT

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- The **Electrical Construction Management** concentration is a result of the collective efforts of the National Joint Apprenticeship Training Committee (NJATC), the National Electrical Contractors Association, the International Brotherhood of Electrical Workers, Pellissippi State Community College, and Middle Tennessee State University to establish this program nationwide.
- Typically, students transfer to MTSU to complete 33 hours of distance learning and receive advanced credit to finish their degrees.
- It is possible for a student who is or is not seeking a journeyman's license to start taking courses at MTSU or online their freshman year.

# ELECTRICAL CONSTRUCTION MANAGEMENT

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- If a student wants to become an electrical journeyman, an interview with MTSU's construction advisor for Electrical Construction Management program and NJATC educational director can be arranged.
- Availability of space will be deciding factors as to when a student can start training.
- A four-year degree in this concentration will provide a strong background in technical and management skills to help graduates obtain middle management positions in the electrical construction management field.

# LAND DEVELOPMENT/RESIDENTIAL BUILDING CONSTRUCTION MANAGEMENT

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- **The Land Development/Residential Building Construction Management** concentration offers preparation for a variety of construction-related positions.
- The concentration is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).
- As students progress, they are expected to develop creativity and the communication skills necessary to meet the challenges of industry.

# LAND DEVELOPMENT/RESIDENTIAL BUILDING CONSTRUCTION MANAGEMENT

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- Students engage in a variety of activities to build a strong background in the field, including lectures by industry members, field trips, and hands-on activities in the classroom and in the field.
- The program is designed to prepare graduates for supervisory or staff positions in a variety of construction-related businesses (land development, construction firms, wholesalers of construction materials, construction material manufacturing, lumberyards, etc.)
- Employment opportunities for graduates include general supervision, project management, human relations, sales and marketing, production and inventory control, quality control, estimating, scheduling, and land development.

# COMMERCIAL CONSTRUCTION MANAGEMENT

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- The **Commercial Construction Management** concentration is designed to prepare students to assume positions of responsibility within the commercial construction industry worldwide.
- Students who graduate are able to secure positions as project estimators, codes inspectors, assistant project engineers, assistant superintendents or superintendents, assistant or project managers, and/or ultimately owners of construction-related companies.
- Students will get many hands-on opportunities for learning with the project-based program and will also be able to obtain practical experience in the industry through the internship/cooperative education requirements with companies that construct a variety of commercial structures.

# COMMERCIAL CONSTRUCTION MANAGEMENT

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- Owning a home or a business has been part of the American Dream since the country's founding.
- But residences and office parks don't build themselves.
- At MTSU, students learn the wide range of skills it takes to help provide the homes, communities, office buildings, and other construction projects that are the literal foundation of the American Dream.



# COMMERCIAL CONSTRUCTION MANAGEMENT

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- **Competing to learn**
- The phrase “Residential Construction Management Competition” may be mouthful, but for students seeking a degree in Construction Management, the annual national contest presents an unequalled opportunity.
- Members of the competition team learn firsthand what it takes to put together a winning development proposal.
- During the last decade, MTSU's team has been dominant, placing at least in the top nine and winning the competition outright in 2007 and 2012.

# WOMEN IN CONSTRUCTION MANAGEMENT

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- **Calling all women**
- In many science and engineering fields, female students too often overlook the opportunities and pay potential.
- That is true of the jobs available to graduates with a degree in Construction Management.
- “As a woman home builder and land developer, I have found that home building is a truly rewarding career in so many ways, not the least of which is earning potential,” says Peggy Krebs, president of Elite Homes and one of the industry's many supporters of the program.
- The path to that earning potential and career satisfaction starts right here.

# CAREERS

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- A degree in Construction Management prepares students for entry-level careers in land development and residential home building construction industry. Examples include:
- Construction business manager
- Construction foreman
- Construction materials salesperson
- Construction superintendent
- Electrical contractor
- Electrical materials and equipment salesperson
- Estimator
- Homeowner's warranty manager
- Land development manager
- Land development sales and marketing
- Mechanical contractor
- PreFab housing industry builder
- Project manager
- Purchaser
- Quality control manager

# CAREERS

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- **Employers of MTSU alumni include:**

- Barlow Exteriors
- Batson Homes
- Beazer Homes
- CPS Land
- Civil Constructors
- Farmers Insurance
- Goodall Homes

- Grant New Homes
- Huskey Truss
- Magnolia Homes
- Regent Homes
- TDK Construction
- TVA
- Tennessee Valley Homes
- The Jones Company
- The Pulte Group



THE UNIVERSITY OF  
**MEMPHIS**™



# UNIVERSITY OF MEMPHIS

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- College of Communication and Fine Arts
  - Department of Architecture

# UNIVERSITY OF MEMPHIS

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- For students wishing to study architecture, the U of M offers the professional Master of Architecture degree and the pre-professional Bachelor of Fine Arts degree with a major in Architecture.
- Together, these degrees make up the "4+2" curriculum which meets the national educational standards to become an architect.
- For students wishing to study interior architecture, the U of M offers the professional Bachelor of Fine Arts degree with a major in Interior Architecture.
- This degree meets the educational requirements to become an interior designer.

# UNIVERSITY OF MEMPHIS

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- Also available is a special program of study for students wishing to study both architecture and interior architecture.
- This "Dual" major program may be completed within the four-year period by completing some of the general education course requirements during the summer or by taking a slightly heavier course load during some semesters.



# UNIVERSITY OF MEMPHIS

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- Herff College of Engineering
  - Department of Civil Engineering

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- **Shaping our World**

- First thought of any engineer: Everything can be improved.
- That's why civil engineers spend their days analyzing the stuff most of us take for granted—like how to reduce pollution, strengthen bridges or improve roadways.
- They literally shape the world we live in

# UNIVERSITY OF MEMPHIS

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- The U of M believes students are their most important asset.
- This is reflected in the close working relationship between faculty and students in the design studios and professional/technical courses.
- In the design studio, students quickly find the value in peer critiques and comments.
- Whether in a formal setting or an informal late night conversation, beginning students and more advanced students learn from each other and build upon their experiences to enhance their success in the studio.

# UNIVERSITY OF MEMPHIS

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- The University of Memphis' "Culture of Engagement" offers students the opportunity to work with community partners and faculty and students in other academic programs on real, hands-on projects to enhance the quality of life for residents within the region and beyond.
- Every graduate design studio and every undergraduate studio from second through fourth year has at least one project per semester with a community partner.

# UNIVERSITY OF MEMPHIS

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- Making a decision on your education and your profession is difficult.
- It is the desire of the University of Memphis that each student entering any of their degree programs be well informed.