MANHATTAN TECH

manhattantech.edu/construction

CONSTRUCTION TECHNOLOGY

PROGRAM **DESCRIPTION**

The Construction Technology program offers training in residential and commercial construction needed in the workforce today. This training uses the National Center for Construction Education and Research (NCCER) curriculum. Course work includes safety, blueprint reading, tools and materials, framing, interior and exterior finishing, roofing, cabinets, and concrete work. Application and practice of skills is accomplished through the construction of projects within the local area.

PROGRAM **OUTCOMES**

- Have the knowledge and skills to operate manual and power tools used in residential construction including skill, reciprocating, table and concrete saws, hammer drills, drills, and air guns.
- Be familiar with forming systems used in concrete construction.
- Be familiar with and have practiced job site safety requirements.
- Be introduced to basic blueprint reading.
- Be introduced to International and local building codes and how those standards apply to residential construction.
- Be made aware that changes may occur to building codes over time and that those changes must be monitored and adhered to.
- Apply problem-solving skills creatively and critically when faced with unforeseen construction dilemmas.
- Be able to use math skills to square a foundation and calculate rafter lengths
- Communicate with instructor, as they should with future employer by notifying instructor of absences, work as a team member to complete worksite projects, and display a positive attitude toward the profession.

This program aligns with the Kansas Board of Regents Curriculum.

Accreditation:

National Center for Construction Education & Research (NCCER)
13614 Progress Blvd.
Alachua, FL 23615
386.518.6500

Occupational Safety and Health Administration (OSHA)
200 Constitution Ave NW
Washington, DC 20210

ADMISSION REQUIREMENTS

- College Placement Assessment Criteria

Construction Technology Course Curriculum

Associates in Applied Science — 63 Credit Hours

Technical Specialty Courses — 36 Credit Hours

COURSE NO.	COURSE TITLE			CREDITS
Fall Semester				
BTR 104	OSHA 30 Construction Industry Certification	***Cert A***	***Cert B***	2
BTR 106	Introductory Craft Skills	***Cert A***	***Cert B***	3
BTR 116	Carpentry Basics	***Cert A***	***Cert B***	4
BTR 121	Floors, Walls & Ceiling Framing	***Cert A***	***Cert B***	4
BTR 131	Roof Framing	***Cert A***	***Cert B***	3
BTR 134	Workplace Skills		***Cert B***	2
Spring Semester				
BTR 136	Windows, Doors & Stairs	***Cert A***	***Cert B***	3
BTR 141	Cabinet Installation/Kitchen Design		***Cert B***	3
BTR 155	Drywall, Installation & Finishing		***Cert B***	3
BTR 160	Interior Finish Carpentry		***Cert B***	5
BTR 175	NCCER Carpentry Level 2		***Cert B***	4

Suggested Technical Electives — 12 Credit Hours

COURSE NO.	COURSE TITLE	CREDITS
ACC 100	Business Accounting	3
BTR 102	Safety Orientation (OSHA 10)	1
BUS 111	Personal Finance	3
BUS 126	Introduction to Business	3
BUS 185	Business Ethics & Human Relations	3
BUS 255	Principles of Management	3

₮ *Additional Technical Elective listed in back of catalog; see an advisor for more information*

General Education Requirements — 15 Credit Hours

COURSE NO.	COURSE TITLE	CREDITS
English		**3 required**
COM 105	English Composition I	3
COM 110	Technical Writing	3
Math		**3 required**
MAT 109	Technical Mathematics II	3
MAT 110	Intermediate Algebra or higher	3
Additional General Education		**9 required**

General education elective list is located on page 028.

Certificate A Requirements — 19 Credit Hours

Technical Specialty courses marked with "***Cert A***"

Certificate B Requirements — 39 Credit Hours

Technical Specialty courses marked with "***Cert B***" & MAT 108 Beginning Algebra or higher