

ARCHITECTURAL DRAFTING, MANUFACTURING TECHNOLOGY (TECHNICAL CERTIFICATE)

Award: Technical Certificate

Program of Study: Manufacturing Technology

Specialization: Architectural Drafting

Program Code: 1175

In this Technical Certificate, students learn drafting concepts and the processes of orthographic projection, pictorial drawing, dimensioning, and geometric construction by hand and with CAD software and equipment. Students will also gain fundamental knowledge of architectural drafting. The majority of a student's work will be completed on the computer. A project in the area of the student's interest will tie the course to real world concepts.

For more information on what you can do with this major, visit CMU Tech's [Programs of Study](#) page.

All CMU/CMU Tech technical certificate graduates are expected to demonstrate proficiency in specialized knowledge/applied learning, communication fluency, and critical thinking. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in documentation required to perform the duties of an Architectural Drafting technician and effectively interview clients and communicate with constituents. (Communication Fluency)
2. Apply mathematical concepts and practices that are required to properly perform calculation for design. (Quantitative Fluency)
3. Utilize correct materials, size and design based upon client consultation and industry knowledge. (Critical Thinking)
4. Demonstrate mastery of terminology, concepts, methodologies in the Architectural Drafting industry. (Specialized Knowledge)
5. Demonstrate mastery of specific Architectural CAD software and generate substantially error free designs. (Specialized Knowledge).

Requirements

Each section below contains details about the requirements for this program. Select a header to expand the information/requirements for that particular section of the program's requirements.

To print or save an overview of this program's information, including the program description, learning outcomes, requirements, suggested course sequencing (if applicable), and advising and graduation information, scroll to the bottom of the left-hand navigation menu and select "Print Options." This will give you the options to either "Send Page to Printer" or "Download PDF of This Page." The "Download PDF of This Page" option prepares a much more concise presentation of all program information. The PDF is also printable and may be preferable due to its brevity.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or CMU Tech Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/CMU Tech.
- 2.00 cumulative GPA or higher in all courses taken to satisfy certificate requirements.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

Code	Title	Semester Credit Hours
CADT 106	Computer Aided Design	3
CADT 140	Architectural Theory and Structural Materials	3
CADT 142	CAD - Residential Architecture	3
CADT 143	CAD-Commercial Architecture	3
CADT 210	Project	3
CONC 104	Architectural/Civil Print Reading	2

Total Semester Credit Hours

17

Suggested Course Plan

First Year		Semester Credit Hours
Fall Semester		
CADT 106	Computer Aided Design	3
CADT 140	Architectural Theory and Structural Materials	3
CADT 142	CAD - Residential Architecture	3
CADT 143	CAD-Commercial Architecture	3
CADT 210	Project	3

CONC 104	Architectural/Civil Print Reading	2
Semester Credit Hours		17
Total Semester Credit Hours		17

Advising and Graduation

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for their intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one-semester certificates, complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found on the [Graduation](#) web page.

If a student's petition for graduation is denied, it will be their responsibility to apply for graduation in a subsequent semester. A student's "Intent to Graduate" does not automatically move to a later graduation date.