



2023-24 PROGRAM HANDBOOK

Computer Aided Design Technology
TCAT Murfreesboro
1303 Old Fort Parkway, Murfreesboro, TN 37129

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INTRODUCTION

Mission

The mission of the Tennessee College of Applied Technology Murfreesboro is to be the leading training provider for workforce development by delivering the best in technical education to our region.

Accreditation

Tennessee College of Applied Technology is accredited by the Commission of the Council on Occupational Education (COE). The COE, originally founded in 1971 as a regional accrediting agency of the Southern Association of Colleges and Schools, is the successor to the Commission on Occupational Education Institutions (COEI). In 1995, the Council became a national accrediting agency. In 2006, the Council celebrated its 35th year of assuring quality and integrity in career and technical education. The Council's accreditation process is conducted on behalf of more than 181,000 students across the nation who pursue careers in a variety of technical fields.

Welcome

I would like to welcome you to the Computer Aided Design Technology program at the Tennessee College of Applied Technology – Murfreesboro. Throughout the course of your program, you will be exposed to the tools, skills, and theory lessons needed to earn and maintain an entry-level position in the field. There are many opportunities and pathways for this program, and you will be learning about them throughout your time here.

It is important that you stay on task and push your limits to learn and grow. This program is designed to act as a mock job setting. You should arrive on time and leave when class is dismissed, interact with fellow students respectfully, operate a safe and clean workspace, and develop professional traits that will be used for the rest of your career. If you treat this class like it is your job, the transition into employment will be smoother and easier for you and your employer.

I am here to assist you with questions, concerns, and anything else that may arise. All of us at TCAT – Murfreesboro are dedicated to your success, so please don't hesitate to reach out. I sincerely hope this course will be of help to you in your career journey.

Best, Corey McKnight

Acknowledgement Page

(Please return the completed form to your instructor.)



I have received and read my copy of the Program Handbook in preparation for my course of study at TCAT – Murfreesboro.

The Program Handbook describes important information about TCAT – Murfreesboro. I understand that if I have questions or concerns at any time about the Handbook, I will consult my instructor for clarification.

I will act in accordance with the standards of conduct outlined in this Program Handbook and in the TCAT – Murfreesboro Student Handbook as a condition of my enrollment.

Student's Signature	
Student's Name (Print)	
 Date	

PROGRAM INFORMATION

Program Description

Computer aided design drafters prepare technical drawings and plans used by production and construction workers to build manufactured products; examples of these may include toys, appliances, industrial machinery, spacecraft, structures, home plans, office buildings, and oil and gas pipelines. Drawings provide visual guidelines showing the technical details of the products and structures, specifying dimensions, materials to be used, procedures and processes to be followed. Computer aided design drafters fill in technical details, using drawings, rough sketches, specifications, codes, and calculations previously made by engineers, surveyors, architects, or scientists. Some Computer aided design drafters use their knowledge of engineering, manufacturing theory and standards to draw the parts of a mechanism to determine fit, form and function.

Traditionally, drafters sat at drawing boards and used pencils, pens, compasses, protractors, triangles, and other drafting devices to prepare a drawing manually. Almost all Computer aided design drafters now use computer-aided drafting (CAD) systems to prepare drawings. CAD systems employ computer workstations to create a drawing on a video screen. The drawings are stored electronically so that revisions or duplications can be made easily. These systems also permit Computer aided design drafters to easily and quickly prepare variations of a design. Although Computer aided design drafters use CAD extensively, it is only a tool. Persons who produce technical drawings using CAD still designers or drafters, and need the knowledge of traditional drafting techniques-related to drafting skills and standards-in addition to CAD skills. Despite the near universal use of CAD systems, manual drafting still is used in certain applications.

Drafting work has many specialties, and titles may denote a particular discipline of design or drafting.

- Aeronautical computer aided design drafters prepare engineering drawings detailing plans and specifications used for the manufacture of aircraft, missiles, and related parts.
- Architectural computer aided design drafters draw architectural and structural features
 of buildings and other structures. They may specialize by the type of structure, such as
 residential or commercial, or by the kind of material used, such as reinforced concrete,
 masonry, steel, or timber.
- Civil computer aided design drafters prepare drawings and topographical and relief maps used in major construction or civil engineering projects, such as highways, bridges, pipelines, flood control projects, and water and sewage systems.
- Electrical computer aided design drafters prepare wiring and layout diagrams used by workers who erect, install, and repair electrical equipment and wiring in communication centers, power plants, electrical distribution systems, and buildings.
- Electronic Computer aided design drafters draw wiring diagrams, circuit board assembly diagrams, schematics, and layout drawings used in the manufacture, installation, and repair of electronic devices and components.

- Mechanical computer aided design drafters prepare detail and assembly drawings of a wide variety of machinery and mechanical devices, indicating dimensions, fastening methods, and other requirements.
- Process piping or pipeline computer aided design drafters prepare drawings used for layout, construction, and operation of oil and gas fields, refineries, chemical plants, and process piping systems.

Program Outcomes

At the completion of each diploma in Computer Aided Design Technology, graduates will be well-rounded, CAD drafters with skills required to enter the workforce immediately.

Students are encouraged to seek individual certification through the American Design Drafting Association or complete the Student Occupational Comprehensive Achievement Test (SOCAT) exam upon completion of any diploma level course. Additional CAD certification is also encouraged for instructors and graduates. Examples of certification include:

- Certified Drafter The American Design Drafting Association (ADDA) is a national nonprofit organization. The drafter certification exam enables individuals to prove their professional drafting capabilities. Additional information including test sites can be found via the web at www.adda.org.
- SOCAT The National Occupational Competency Testing Institute (NOCTI) is a leading
 provider of occupational competency assessments and services. Experienced Worker
 tests are designed to measure an individual's knowledge of higher-level concepts,
 theories and applications in the related occupation. These tests are used for evaluating
 individuals with a combination of education, training and work experience. The
 Experienced Worker tests can be used for both education and business and industry
 applications. For additional information visit www.nocti.org.
- AutoCAD Assessment Exam AutoDESK is now delivering the user certification exams via the web. Information concerning content and cost are available at www.autodesk.com or www.certiport.com
- Essential MicroStation Exam A certification exam for MicroStation end users. For more information visit www.bentley.com.
- SolidWorks Cerfification Exams Certification exams for SolidWorks users. For more information visit http://www.solidworks.com/

Program Outline

Course	Title	Customary Hours
CAD 0001	Worker Characteristics	6
CAD 1010	Orientation and Safety	6
CAD 1020	Technology Foundations	30
CAD 1030	Drawing Techniques	150
CAD 1040	Computer Aided Design & Drafting	240
	Assistant Drafter Certificate	432

CAD 0002	Worker Characteristics	6
CAD 2010	Technical Drawing	318
CAD 2020	Additive Manufacturing	108
	Detail Drafter Certificate	864
Select one of three tracks below:		

	Option 1	
CAD 0003	Worker Characteristics	6
CAD 3030	Residential Architecture I	426
CAD 0004	Worker Characteristics	6
CAD 4060	Residential Architecture II	396
CAD 4050	Professional Development	30
	Residential Architecture Drafter Diploma	1728

	Option 2	
CAD 0003	Worker Characteristics	6
CAD 3050	Mechanical Design I	426
CAD 0004	Worker Characteristics	6
CAD 4080	Mechanical Design II	396
CAD 4050	Professional Development	30
	Mechanical Drafter Diploma	1728

	Option 3	
CAD 0003	Worker Characteristics	6
CAD 3010	Drafting Applications	240
CAD 3020	Working Drawings	186
CAD 0004	Worker Characteristics	6
CAD 4010	Solid Modeling	114
CAD 4020	3D Illustration	90
CAD 4030	Animation	96
CAD 4040	Rendering	96
CAD 4050	Professional Development	30
	Drafting & CAD Technician Diploma	1728

Program Awards

Assistant Drafter Certificate 432 hours
Detail Drafter Certificate 864 hours
Residential Architecture Drafter Diploma 1728 hours
Mechanical Drafter Diploma 1728 hours
Drafting and CAD Technician Diploma 1728 hours

GRADING AND PROGRESS STANDARDS

Grading Standards

Evaluations of student achievement toward a program's identified occupational competencies are recorded for each student at the end of 432 hours of instruction that comprise a term. Those evaluations shall be based on the following scale of progress:

Α	90-100
В	80-89
С	70-79
D	60-69
F	0-59
Р	Pass
CONT	Continuing/Incomplete
W	Withdrew

Students will be graded in the following categories:

- Skill Proficiency
- Theory/Related Information

A student must maintain a "D" or better average per course code and an overall combined average of a "C" or better for the 72-day period of instruction, which comprises a term. Failure to maintain the required grade average will result in suspension at the end of the term. Additional retention standards for specific programs may be established based on accrediting or licensing requirements.

Retention Standards

A student who fails during any term to attain a cumulative GPA at or above the level indicated below for the customary clock hours attempted or the average grade per course will be placed on suspension at the end of the term.

Standard:

 A student must maintain a "D" or better average per course code and an overall combined average of a "C" or better for the 72-day period of instruction, which comprises a term.

Additional retention standards for specific programs may be established by the college based on accreditation or licensing requirements applicable to a program.

Worker Characteristics

Worker characteristics measure a student's professionalism in the workplace. The instructor will observe your actions throughout your time in class and give you an evaluation based off the

following categories. A number grade will be issued to you during mid-term and at the end of the trimester.

- Attendance: Attends class, arrives/leaves on time; notifies the instructor in advance for planned absences
- **Character:** Displays loyalty, honesty, trustworthiness, dependability, reliability, initiative, self-discipline, and self-responsibility
- Teamwork: Respects the rights of others; respects confidentiality; is a team player; is cooperative; displays a customer service attitude; seeks opportunities for continuous learning
- Appearance: Displays appropriate dress for the profession (grooming, hygiene, etiquette, uniform)
- **Attitude:** Demonstrates a positive attitude; appears self-confident; has realistic expectations of self
- Productivity: Follows safety practices; conserves materials; keeps work area neat and clean; follows directions and procedures; makes up assignments punctually; participates in class
- Organizational Skills: Manifests skills in prioritizing and management of time and stress;
 demonstrates flexibility in handling change
- **Communication:** Displays appropriate nonverbal (eye contact, body language) and oral (listening, telephone etiquette, grammar) skills
- Cooperation: Displays leadership skills; appropriately handles criticism, conflicts, and complaints; demonstrates problem-solving capability; maintains appropriate relationships with supervisors and peers; follows chain of command
- **Respect:** Deals appropriately with cultural/racial diversity; does not engage in harassment of any kind

TCAT – MURFREESBORO POLICIES

Attendance

As stated in the Student Handbook, "The nature of the programs at the Tennessee Colleges of Applied Technology is such that it is necessary for every student to attend regularly. Excessive interruptions due to absences will have an adverse effect on student progress."

5.5% Absences – Instructor Counseling and Documentation

- Students who miss 5.5% of their enrolled hours for the term (24 hours for full-time students enrolled in 432 hours) must be formally counseled by their instructor. Absences affect the work ethic grade and could affect financial aid.
- The instructor documents the meeting with a signed attendance counseling form or memo. The student receives a copy, and the instructor retains a copy for his/her records.

9.7% Absences – One-Term Suspension with Appeal Opportunity

- Students who miss 9.7% of their enrolled hours for the term (42 hours for full-time students enrolled in 432 hours) are reported by the instructor to Student Services.
- The Student Services Office notifies the student of the option to (1) accept the one-term suspension or (2) appeal the suspension within three business days of notice. An appeal form is provided to the student.
- Student appeals are forwarded to an Attendance Appeal Committee (appointed by the Vice President of Student Services) for review of the documentation. Only one appeal will be granted within a 12-month period.
- If approved to continue, the student and the instructor are notified via email of the stipulations for approval (e.g. not missing additional classes for the term); if the student fails to meet the stipulations, the instructor notifies Student Services to proceed with suspension. If the initial appeal is not approved and suspension is recommended by the committee, the appeal is then reviewed by the Vice President of Student Services.
- In consultation with the President, the Vice President provides the final decision on suspension to Student Services, so the student and the instructor can be notified via email.

Tardies

As stated in the Student Handbook, "A student is considered tardy if not in the classroom at the designated time for class to start. Multiple tardies will result in the following discipline."

<u>5 Tardies – Instructor Counseling and Documentation</u>

- Students who are tardy five times in the term (four times for part-time students) must be formally counseled by their instructor. Further tardies can lead to probation and other sanctions.
- The instructor documents the meeting with a signed tardy counseling form or memo. The student receives a copy, and the instructor retains a copy for his/her records.

6 Tardies – Probation and Student Success Plan

- Students who are tardy six times in the term (five times for part-time students) are reported by the instructor to Student Services.
- The Student Services Office places the student on probation, and the student is required to complete a Student Success Plan with the appropriate Student Services representative.

7 Tardies – Review by Vice President for Possible Suspension

- Students who are tardy seven times in the term (six times for part-time students) are reported by the instructor to Student Services.
- The Student Services Office notifies the Vice President of Student Services for review. In consultation with the President, the Vice President provides the final decision on suspension to Student Services, so the student and the instructor can be notified via email.

Three-Day No Call/No Show

Students are responsible for notifying their instructor each time they are absent. When a student misses three (3) consecutive days without contacting the college, that student may be presumed to have withdrawn from the college and will be exited from the program.

TBR General Policy on Student Conduct and Disciplinary Sanctions

TCAT – Murfreesboro is governed by the Tennessee Board of Regents (TBR). Students enrolled in a TBR postsecondary educational institution are citizens of their civic communities as well as the academic community. As such they are expected to conduct themselves as law-abiding members of each community at all times.

Admission to an institution of postsecondary education carries with it special privileges and imposes special responsibilities apart from those rights and duties enjoyed by non-students. In recognition of the special relationship that exists between the institution and the academic community which it seeks to serve, the Tennessee Board of Regents ("TBR" or "the Board") has authorized the presidents of the institutions under its jurisdiction to take such action as may be necessary to maintain conditions on institution-owned and controlled property and to preserve the integrity of the institution and its educational environment.

Pursuant to this authorization and in fulfillment of its duties to provide a secure and stimulating atmosphere in which individual and academic pursuits may flourish, the Board has developed this policy, which is intended to govern student conduct at the institutions under its jurisdiction.

In addition, students are subject to all federal, state and local laws and ordinances. If a student's violation of such laws or ordinances also adversely affects the institution's pursuit of its educational objectives, an institution may enforce its own policies regardless of the status or outcome of any external proceedings instituted by other civil or criminal authorities.

Students are responsible for compliance with this policy and with institutional policies and regulations.

The policy in its entirety may be found at: https://policies.tbr.edu/policies/general-policy-student-conduct-disciplinary-sanctions.

Academic Misconduct

Academic misconduct is any action or attempted action designed to provide an unfair academic advantage or disadvantage for oneself or others. Academic misconduct includes a wide variety of behaviors such as plagiarism, cheating, fabrication, and other academic dishonesty. For purposes of this policy the following definitions apply:

- Plagiarism. The adoption or reproduction of ideas, words, statements, images, or works
 of another person as one's own without proper attribution. Examples include but are
 not limited to copying of passages from works of others into one's own work without
 acknowledgment; summarizing or paraphrasing ideas from another source without
 proper attribution, unless such information is recognized as common knowledge; and
 using facts, statistics graphs, representations, or phrases without proper attribution;
- Cheating. Using or attempting to use unauthorized materials, information, or aids in any
 academic exercise or test/examination. Examples include but are not limited to copying
 another's work; obtaining or giving unauthorized assistance; unauthorized collaboration
 or collusion with another person; having another person take a test for a student; and
 the use of unauthorized materials or devices. The term academic exercise includes all
 forms of work submitted for credit or hours;
- Fabrication. Falsifying, fabricating, or misrepresenting data, research results, citations or other information in connection with an academic assignment. Unauthorized falsification or invention of any information or citation in an academic exercise.

Academic misconduct is prohibited. Students guilty of academic misconduct, either directly or indirectly, through participation or assistance, are immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions which may be imposed in accordance with this policy, the instructor has the authority to take academic discipline consistent with institutional policy, procedures, and processes.

An instructor who determines that a student has engaged in academic misconduct may choose to exercise academic discipline by lowering to any extent, including to a grade of "F" or "zero," a student's grade in the course, assignment, or examination affected by the alleged academic misconduct.

The policy in its entirety may be found at: https://policies.tbr.edu/policies/general-policy-student-conduct-disciplinary-sanctions.

Acceptable Computer Use

All computer use including Internet use must be in support of education and research and appropriate for the assignment. The College is not responsible for a student's access to any

inappropriate material. All students at the College will be taught ethics and acceptable use of the computer system and the Internet. If there is a complaint about inappropriate usage, the instructor will resolve it. If not resolved by the instructor, the President or Vice Presidents will review the complaint. Inappropriate usage may be grounds for suspension or dismissal from the College.

This policy is in conjunction with TBR Policy IT Acceptable Uses 1.08.05.00.

Inappropriate usage includes but is not limited to:

- Using the network or Internet for personal and private matters including electronic mail outside the College.
- Hate mail, harassment, discriminatory remarks, and other antisocial behaviors including spamming.
- Accessing pornographic or obscene material.
- Accessing confidential material including but not limited to test files and personal/personnel records.
- Destroying, inappropriate deleting or changing, or otherwise damaging hardware or software.
- Downloading and/or installing programs or data files on College computers without permission of the Instructor.

Removal from Class for Disruptive Conduct

As stated in the TCAT – Murfreesboro Student Handbook, "Students are expected and encouraged to develop proper work habits and to maintain a sincere, cooperative attitude at all times." This includes:

- actively and routinely participating in all class functions in a timely manner
- coming to class with the necessary tools and equipment required to participate in class activities
- wearing appropriate attire for the program area and displaying their name tag
- maintaining a respectful and cooperative demeanor at all times with instructors, institutional officials, and classmates
- avoiding inappropriate language or conduct deemed disruptive to the institution's learning environment
- following all institutional procedures related to absences and tardiness (e.g. arriving to class on time, notifying instructor of planned and unplanned absences, etc.)

Pursuant to Tennessee Board of Regents (TBR) policy, students who engage in disruptive conduct or other conduct that violates the TBR's General Policy on Student Conduct and Disciplinary Sanctions 3:02:00:01 may be temporarily removed or excluded from class by the instructor for each class session in which the conduct occurs. Repeated infractions may result in additional disciplinary sanctions.

Smoking

TCAT Murfreesboro's campuses are smoke free. This includes all tobacco and electronic cigarettes, vape products, and smokeless tobacco. Students may smoke/vape in their personal vehicles only.

Live Work

Live work projects performed by students enhances the technical training of students. The Tennessee Board of Regents Guideline Tennessee College of Applied Technology – A030, Instructional Projects, is the basis for all live-work projects performed at the Tennessee College of Applied Technology. Live work will be conducted when training programs require such projects for the acquisition of occupational skills leading to employment. Live work will be assigned to individual students by their instructor as part of the student's training program. All services are to be performed only by students with the instructional assistance of their instructor.

Work can only be accepted if it can be completed within a reasonable timeframe and projects cannot be allowed to remain in the Tennessee College of Applied Technology possession if not being actively worked on. Live Work projects will be assessed for timely completion.

Upon approval of the need to perform the service at hand, and verification of project ownership by the instructor of the training program, the instructor will complete a "Live Work and/or Service Agreement" form. This form will be submitted to the President or his/her designee for approval and signature. Upon approval of the need to perform the service at hand, and verification of project ownership, a Live Work Agreement form will be completed with a copy of the form being provided to the individual for whom the work is being performed. The owner of the project shall be responsible for providing the parts, supplies, and materials for individual projects. All live work is to be completed under the instructor's supervision and may be released only after a thorough final inspection.

The policy in its entirety may be found at: https://policies.tbr.edu/guidelines/instructional-projects-colleges-applied-technology.

Cooperative Education

Cooperative Education (Co-op) is an educational program that combines classroom instruction with practical work experiences directly related to the student's curriculum. This combined classroom study and work experience is a meaningful way for students to learn and to assist in making informed career choices while earning credit. Students interested in Cooperative Education should meet with their instructor to discuss co-op opportunities. The instructor must submit a co-op request form to the Vice President for approval. The student, instructor, employer, and Vice President must sign the formal co-op agreement. To be eligible for cooperative education, students must have completed at least 50% of their program of study.

CLASSROOM POLICIES

Dress Code

Appropriate attire must be worn that is representative of what the industry requires in the workplace. Students may be required to purchase certain prescribed clothing such as shop suits, steel-toe boots, pants, shirts, uniforms, etc., for their training area. Students must wear shoes and clothes suitable for the area enrolled and keep them neat. Provocative or offensive clothing is prohibited on campus.

ID Badge

Students must always wear their Tennessee College of Applied Technology student photo identification badges while on campus. The badges must be displayed so that they are readily visible. If a student loses his or her student ID badge, the student may request a replacement from Student Services after paying a \$5 fee to the Business Office.

Food/Drink

Food is not permitted in the classroom. There is a student break room for this purpose. Water/soft drink is allowed.

Cell Phones

Cell phones are allowed and encouraged to research curriculum and to turn in assignments.

Class Break Times

Class begins at 3:30pm. Students are to be in their seats when the roll is taken. Dinner break is 6:00-6:30pm.

Sleeping in Class

Students are expected to develop proper work habits and to remain engaged and on task in class. Students are not permitted to sleep in class. Repeated violations may result in the student being sent home for the day.

Classroom/Lab Space Maintenance

Good housekeeping practices should always be followed. Trash must be picked up on site; tools, equipment, etc. should be kept in appropriate places-not on benches, machines, and floors when not in use. As an integral part of instruction, each student is expected to participate in housekeeping and cleanup activities at the conclusion of each day to maintain efficient, high-level training programs. Instructors and students are responsible for cleanliness and orderliness of classroom work areas at all times. Each program will establish a daily routine for cleaning and students are expected to carry out duties as assigned.

Attitude and Conduct

You are expected to be cooperative and to demonstrate a professional and respectful attitude at all times. Everyone is encouraged to work as a team. Horseplay, hazing, inappropriate language, and any other behavior deemed inappropriate for this program will be reflected in a

reduction of the worker characteristics grade and may be referred to the Vice President of Student Services for progressive disciplinary action.

Absence Notification

If you know in advance that you will be absent, you must notify your instructor. If you do not know in advance that you will be absent, call the instructor as soon as possible. If you leave class before the class is over, you must inform the instructor. Failure to notify the instructor will result in a deduction in your worker characteristic grade.

Computer/Internet Privileges

The classroom computers and internet are provided only as a resource for research and learning. They are not to be misused in the classroom.

Work Keys

All new TCAT students complete three assignments in Work Keys: Applied Math, Graphic Literacy, and Workplace Documents. When you take the placement test, take your time and do your very best, as you could be exempted from doing some of the lessons in each subject. You will need to reach the highest level in each subject. You can access Work Keys at https://workkeyscurriculum.act.org/ from any computer with internet access. Your login information will be emailed to you by ACT Work Keys.

SAFETY POLICIES

First Aid Kit

A first aid kit is available in the print room above the microwave. If you are injured, you should notify the instructor as soon as possible.

<u>Safety</u>

Fire Procedures

In the event of a fire drill or actual fire, students should immediately exit the building via the door next to the student lounge and report to side parking area.

Tornado Procedures

In the event of a tornado drill or actual tornado, students should immediately seek shelter in the hallway outside the classroom.