Computer Drafting and Design
Associate’s Degree Program

The ITT Technical Institutes offer a variety of career-focused curricula. This sheet helps describe the Associate’s Degree program in Computer Drafting and Design offered in the School of Drafting and Design.

What it Means:
Drafting is a graphic language that is used to communicate ideas and plans from the creative design stage through production. Computer drafting and design is one way to produce drawings in design and drafting fields.

Many industries use drafters to translate the ideas, sketches and specifications of an engineer, architect or designer into working plans. These plans may detail how to make products, engineer projects or create structures.

What it Means to You:
The Computer Drafting and Design program in the School of Drafting and Design at ITT Technical Institute combines computer-aided drafting with conventional methods of graphic communication to solve drafting and basic design-related problems. The program balances classroom theory and hands-on applications in a laboratory environment. Students create a variety of drawings of various sizes on different drawing media using conventional and computer-aided drafting equipment. If you have strong drawing ability, visual aptitude and attention to detail, studying computer drafting and design may fit your skills and interests.

This program can help graduates develop knowledge and skills that they can use to pursue career opportunities in a variety of entry-level positions in various fields involving drafting and design. Drafting fields include, among others, mechanical drafting, piping drafting, architectural and construction drafting, civil drafting, interior design, illustration and design detailing.

Some of the Courses in the Program:
- Introduction to Design and Drafting
- Drafting/CAD Methods
- Architectural Drafting I and II
- Rapid Visualization
- Engineering Graphics I and II
- Sustainable Design
- Materials and Processes
- Civil Drafting and Introduction to GIS
- Basic Design Theory and Methods
- Physical and Computer-Aided 3-D Modeling
- Descriptive Geometry

Length of the Program:
Based on the typical class schedule of a full-time student, this associate’s degree program is eight quarters in length. A typical class session lasts approximately four to five hours. Class sessions are generally available in the day and evening, depending on student enrollment.

Admission Requirements:
Please consult the school catalog for an explanation of the admission requirements for this program. Please contact the specific campus regarding the opportunity to transfer credits earned at other postsecondary education institutions to satisfy course requirements of this program.

Equipment Used by Students in the Program:
Students will have the opportunity to use the following school equipment as required throughout the program: computer systems, print machines and other common computer peripherals. The CAD laboratory is equipped with CAD terminals, plotters and a draft printer. Students regularly use smaller tools such as portable drafting boards, drafting instruments, scales and calculators. Please refer to the Student Equipment provision in the Online Course Information section of the school catalog for information relating to student equipment requirements for any distance education courses that are taught online over the Internet.
**Education for the Future.**

The seven schools of study at the ITT Technical Institutes (School of Information Technology, School of Electronics Technology, School of Drafting and Design, School of Business, School of Criminal Justice, School of Health Sciences and Breckinridge School of Nursing) teach skills and knowledge that can be used to help pursue careers in our global technology-driven culture.

Last year, more than 80,000 men and women were enrolled in programs of study offered by the various ITT Technical Institutes.

With convenient class schedules, the ITT Technical Institutes offer an education designed around today’s workplace. A world of opportunity is waiting for those ready to take a step forward in their education.

Go to programinfo.itt-tech.edu to access information on the programs of study offered at the ITT Technical Institutes, including, among other things:

- the occupations (by name and Standard Occupation Classification (“SOC”) codes) that each program of study can help students prepare to enter, along with links to occupational profiles on O*NET (or its successor site) associated with the SOC codes;
- the on-time graduation rate for students who have completed each program of study;
- the costs associated with each program of study;
- the placement rate for students who completed each program of study;
- the median load debt incurred by students who completed each program of study, as provided by the U.S. Department of Education (“ED”) to the ITT Technical Institutes; and
- any other information that the ED provided to the ITT Technical Institutes about any program of study.

**Call 1-800-ITT-TECH, or visit our website at www.itt-tech.edu**

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1. This associate’s degree program includes courses that may be taught either completely in residence at the institute, completely online over the Internet as a distance education course, or partially in residence and partially online as determined by the institute from time to time in its discretion. This program is not offered at all ITT Technical Institutes. Please refer to the specific ITT Technical Institute’s school catalog for a complete list of the programs offered at that institute and which courses in each program may be taught in residence at the institute, completely online over the Internet as a distance education course, or partially in residence and partially online.

2. Not every institute has every school of study or offers all of the programs within a particular school of study. Please refer to the specific ITT Technical Institute catalog for details on the schools of study and programs of study offered at that institute.

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School of Drafting and Design

The ITT Technical Institute offers programs of study in a wide range of subjects that emphasize helping students develop knowledge and skills that can be used to pursue careers. The School of Drafting and Design at ITT Tech combines classroom theory and practical application in a laboratory environment. The products we use and the structures in which we live and work start out as designs – from an electronic circuit to a video game to a house. Designs are typically represented in draft form to demonstrate how to construct the product. Drafting and design used to be separate tasks. Today, computer-assisted drafting and design software has made the two processes more interrelated. Programs in the School of Drafting and Design focus on using current tools of technology.

Length of Program

Based on the typical class schedule of a full-time student, the associate’s degree program in the School of Drafting and Design can be completed in eight academic quarters of study. A typical class session in a course taught entirely in residence lasts four to five hours. A typical class session in a course taught partially in residence and partially online lasts two to three hours. Class sessions are generally available in the morning, afternoon and evening, depending on student enrollment. Courses in these programs may be taught entirely in residence at the campus, or partially in residence and partially online. The Program Curricula and Online Course Information sections of the school catalog contain specific information about how each course in these programs may be taught.

Admission Requirements

Please see the school catalog for an explanation of the admission requirements for these programs. Contact the specific campus for information on transferring credits earned at other post secondary institutions to satisfy course requirements of these programs.
Drafting and Design Technology
This program exposes students to a variety of fundamental skills utilized in entry-level computer-aided drafting (CAD) and design positions. Students use CAD technologies and conventional drafting methods to produce various designs, working drawings, charts, forms and records. Students will be exposed to both classroom theory and laboratory projects. This program can help graduates pursue careers in a variety of entry-level positions in various fields involving drafting and design, and may include mechanical drafting and design, Building Information Modeling (BIM), architectural drafting and design, parametric modeling, civil drafting and design and structural drafting.

Some of the Courses in the Program:
• Introduction to Design and Drafting Technology
• CAD Methods
• Building Information Modeling (BIM)
• Rapid Visualization Techniques
• Sustainability in Design
• Materials and Processes in Design
• Parametric Modeling
• 3D Civil Drafting
• Advanced CAD Methods
• 3D Modeling and Visualization

Information Technology – Multimedia
This program can help graduates prepare to perform tasks associated with designing and creating interactive multimedia communications. Additional curriculum topics, investigated through classroom and laboratory experiences, include introductory computer programming and multimedia applications. The program exposes students to information on authoring software, motion graphics and development, visual design principles and other related technical subjects. Graduates may pursue careers in various industries involving multimedia in a variety of entry-level positions.

Some Courses in the Program:
• Instructional Design
• Scripting and Web Authoring
• 3D Modeling
• Visual Design Theory
• Interactive Communication Design
• Broadcast Graphics
• Animation
• Audio/Visual Techniques

1. Courses in these programs are taught (a) entirely in residence at the campus; or (b) partially in residence and partially online over the Internet and are delivered by means of distance education.
Graphic Communications and Design
This program can help students develop knowledge and skills utilized in entry-level graphic design, visual communications and related positions. The program can help students explore communicating ideas and concepts through print and interactive multimedia communication. The program emphasizes creativity, visualization and critical thinking to help students generate technologically appropriate, functional and aesthetically pleasing solutions for graphic communications and design projects. Graduates of this program may pursue entry-level positions involving graphic communications and design, which may include the production of interactive multimedia, print media and other communications at a variety of organizations.

Some of the Courses in the Program:
• Fundamentals of Design
• Fundamentals of Typography
• Rapid Visualization Techniques
• 3D Modeling Techniques
• Advanced Photoshop
• Video Production Techniques
• Animation
• Interactive Design with Flash
• Sustainable Graphic Design
• Digital Prepress and Production Processes
• Graphic Design for the Web

May be of Interest to Someone Who
* Enjoys graphic arts
* Is both creative and detail-oriented
* Likes to work on a team
* Communicates well

Some Types of Technology Used in this Area
* Computer systems
* Graphics applications
* Animation software

Possible Starting Positions
* Computer graphics technician
* Interactive media designer
* Multimedia technician
* Production artist

Start building your future at ITT Tech.
Education for the Future.

The six schools of study at the ITT Technical Institutes* (School of Information Technology, School of Electronics Technology, School of Drafting and Design, School of Business, School of Criminal Justice and Breckinridge School of Nursing and Health Sciences) teach skills and knowledge that can be used to help pursue careers in our global technology-driven culture.

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*Not all ITT Technical institutes have all six schools of study. Please refer to the particular ITT Technical institute’s school catalog for details on the schools of study at that institute.

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Computer Drafting and Design

CDD \n (abbreviation of Computer Drafting and Design)
1. A graphic procedure which uses computers to communicate ideas and plans from the creative design stage through production. 2. An Associate’s Degree program which teaches students skills used in the workplace by draftspersons to make basic design decisions and address the challenges of future technological advances in the drafting and design profession.

The center of the wheel identifies the program. The inside ring names some of the courses within the program that can help the student develop skills and knowledge to obtain the type of entry-level positions identified in the outer ring.