

## TECHNOLOGY CENTER OF DUPAGE (TCD)

The Technology Center of DuPage programs are open to juniors and seniors who have demonstrated serious interest in a goal-oriented education. Except for Cosmetology students, students who enroll at the Technology Center of DuPage attend for a two and a half hour session, usually during the morning, each day. Cosmetology students attend Technology Center of DuPage for an extended afternoon of three and a half hours each day. Students continue to take their other courses at Wheaton North High School or Wheaton Warrenville South High School. Some students may encounter scheduling conflicts relative to TCD enrollment and District 200 graduation credits, and in such circumstances, administrative intervention and/or alternative credit options may be necessary. Bus transportation is provided to and from the Technology Center of DuPage.

**Additional Program Costs** - While the tuition expense of enrollment at TCD is a district responsibility, the costs for specialized equipment and supplies rests with the student. Several TCD programs require sophisticated equipment, some of which is costly. Please be aware of these costs prior to committing to the TCD program.

### Technology Center of DuPage (TCD) CUSD 200 Credit Articulation

TCD Course	CUSD200 Fine Art Credit	CUSD200 Applied Tech Credit	CUSD200 Math Credit	CUSD200 Science Credit
Construction Trades		X	X	X
Machine Tool Programs		X	X	
Computer Information Systems		X	X	
Data Entry Occupations		X		
Office Systems Technology		X		
Graphic Communications	X	X	X	
Multi Media & Television Production	X	X		
Certified Nurse Assistant		X		X
Fire Science		X		X
Medical and Health Care Careers		X		X
Auto Body Repair and Refinishing	X	X		
Automotive Technology		X		X
Early Childhood Education and Care	X			X
Cosmetology	X			X
Culinary, Pastry Arts and Hotel Management	X	X	X	X
Electronics and Computer Technology		X	X	X
Heating, Ventilation, Air Conditioning & Refrigeration		X	X	X
Network Technician		X	X	
Pre-Architectural & Pre-Engineering CAD	X	X	X	X

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## **BUILDING AND MACHINING GROUP**

### **Pre Architectural and Pre Engineering**

The Pre-architectural & Pre-engineering CAD Program incorporates design concepts along with the necessary CAD skills to provide students with skills to be employable and increase the likelihood of success in a university architectural and/or engineering program.

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### **Construction Trades**

The Construction Trades program gives provides the opportunity to gain skills in new construction and/or additions, alterations and repairs of existing structures. Instruction is provided in theories and techniques used in the construction field. These principles are applied in the construction of a modular house and storage shed. Program completion prepares students for the apprentice qualifying exam in residential and commercial carpentry, plumbing, or residential electrical wiring. Safety practices and the proper use of both hand and power tools are essential elements of the program.

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### **Machine Tool Program**

The Machine Tool program provides the skills and knowledge needed for employment as a machine tool operators, all-around machinist, tool and die maker, and/or mold maker (plastics). Students have the opportunity to learn skills on computer numerically controlled milling machines, electrical discharge machines, plastic injection molding machines, conventional lathes, mills, drill presses, and grinders. Credit may be granted for acquired skills in machine tool toward meeting the requirements of apprenticeship programs certified by the Bureau of Apprenticeship and Training. In addition, students will be prepared for the level I & II skills standards as prescribed by National Institute for Metal Working Standards.

## **BUSINESS GROUP**

### **Computer Information Systems**

Students have an opportunity to learn a wide variety of computer technology skills as a Computer Information Systems student. These include developing database applications for minicomputers and PC based systems, entering, compiling, linking, and running a C program in a UNIX environment, developing online applications, and installing and configuring a local area network (LAN). The program also includes activities and projects related to COBOL & RPG400.

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### **Data Entry Occupations**

In Data Entry Occupations, instruction will be offered in entering input ,storing and retrieving computer-based files, editing source documents, basic business principles, including payroll and general recordkeeping, word processing, and creating databases and spreadsheets. In addition, the program includes instruction in related office skills such as filing, proofreading, and electronic calculator.

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### **Office System Technology**

Students in Office System Technology will learn basic and advanced office skills including: advanced word processing, operation of a machine transcriber, electronic calculator, and electronic typewriter, telephone techniques, administrative office procedures such as making travel arrangements and setting up meetings, composing and preparing business correspondence, spreadsheets and databases. Extended campus and internship opportunities with local companies are available.

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## **COMMUNICATONS GROUP**

### **Graphic Communications**

The student will gain an understanding of the graphic arts of printing industry. A student has the opportunity to learn commercial art, desktop publishing and other prepress duties, offset press operations, bindery and finishing operations, screen printing processes and graphic arts management.

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## **Multi Media and Television Production**

In this course, students will have the opportunity to learn the essential skills needed to enter this fast-paced career field. Students will start by learning the fundamentals of television production and editing techniques. In the TCD digital eight track recording studio students learn skills in computer editing using a video toaster, and the AVID nonlinear editor. Students will have the opportunity to learn, set design, studio lighting, and video graphics as well. Mastering these skills will lead to work with interactive multimedia, animation, or independent study with the AVID nonlinear editor. Interactive multimedia will combine all of the skills learned in the Multi Media and Television Production program.

## **HEALTH & SAFETY SERVICES GROUP**

### **Certified Nurse Assistant**

Successful completion of the CNA program can lead to Nurse Assistant certification in one year. Requirements are established by the Illinois Department of Public Health and currently include completing a minimum of fifty clinical hours. Student will achieve these clinical hours by attending eight six-hour Saturday clinicals. On Monday through Friday, students learn theory and practice skills in the lab at the TCD. Upon successful completion of this course, the student will have the skills to assist the professional nurse in providing quality care for patients in a variety of health care settings.

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### **Fire Science**

From putting out fires and rescuing those in danger to handling hazardous chemical emergencies, fire fighters “run to get to places that other people are running to get out of.” The concept of service twenty four hours a day and seven days a week for 365 days a year is no more true of any professional as it is for a firefighter. The Technology Center of DuPage program will follow the standards of training in NFPA 101 Standard for Fire Fighters, preparing students for certification as a firefighter II. Students will become acquainted with all aspects of fire fighting.

Upon completion of the TCD program, students will have the opportunity to continue their professional preparation as a member of a fire department or in pursuit of an AAS degree or B.S. degree. Fire Science students may enroll in the EMT-B program offered at TCD during the second half of their senior year.

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## **Medical and Health Care Careers**

The Health Occupations course is designed for students who have an interest in exploring medical careers. Students will have the opportunity to learn basic techniques such as CPR, first aid, and vital signs. Students will also learn anatomy, physiology, and medical terminology. Extended campus visits will give students at least three to five career choices from such careers as veterinarian assistant, nursing assistant, home health aid, physical therapy aid, pharmacy assistant, general medical clerk, environmental service worker, and electrocardiogram technician.

## **MECHANICAL GROUP**

### **Auto Body Repair and Refinishing**

The program teaches all facets of auto body repair, including basic sheet metal and welding techniques with MIG, and spot welding. Other areas of learning include hydraulic body alignment equipment, finishing and painting. Students have the opportunity to learn advanced auto body skills such as estimating, parts and supply inventory, and shop management.

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### **Automotive Technology**

The student has the opportunity to master fundamental and advanced skills necessary to obtain employment in the automotive service industry. Areas studied include computerized engine controls, electrical systems, tune-up, lubrication, fuel system, cooling, exhaust, brakes, steering, and alignment. Job-seeking and job-keeping skills will also be covered. Second year advanced students will continue to develop skills in diagnostics and engine building. Students may test for ASE Certification.

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## PERSONAL SERVICES GROUP

### **Early Childhood Education & Care**

Successful completion of this program gives the student the skills necessary to seek employment as a child care assistant. Students will have the opportunity to learn to prepare developmentally appropriate activities for preschool children; implement activities in a hand-on laboratory preschool; understand the basic emotional, social, intellectual and physical development of the preschool child; and participate in extended campus work experiences.

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### **Cosmetology**

Upon completion of the program, the student is prepared to become a licensed cosmetologist. Opportunities are provided to learn haircutting, hairstyling, hair coloring, permanent waving, nail technology, esthetics, and the application of cosmetics. Application of these skills is accomplished through work with customers in the Center's "Technology Center of DuPage Hair Designs" beauty salon. Successful completion of the program will allow the student to take the Illinois State Cosmetology exam and become licensed in the area of cosmetology and esthetics.

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### **Culinary, Pastry Arts & Hotel Management**

The student has the opportunity to learn various aspects of the hospitality industry and gain real-world experience at the Technology Center of DuPage Gateway Café and Delicatessen. In the first year, eight different areas of culinary arts are experienced, including deli prep, fresh pasta cook, pantry cook, line cook, pastry arts, sanitation, and dining room and deli attendant. During the second year program, students develop supervisory techniques such as purchasing, inventory control, daily cash deposits invoice payment authorizations, internet recipe searching, computer cookbook discovery, and internet scholarship searching. Successful completion of the Applied Foodservice Sanitation Certificate with at least 75% accuracy will entitles students to the State of Illinois Department of Public Health Sanitation License.

## TECHNICAL GROUP

### **Electronics and Computer Technology**

The Electronics & Computer Technology program will prepare students for a career in the high tech field of installation and repair of electronic equipment. Students receive hands-on learning using Lab Volts Fault Assisted Circuits for Electronics Training (FACET) a computer aided instructional system. FACET provides interactive opportunities to learn electronic principles and troubleshooting techniques including electronic circuits, audio equipment, digital circuitry operations, digital communication devices, and robotics.

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### **Heating, Ventilation, Air Conditioning & Refrigeration**

In this program students will learn the mechanical and electrical fundamentals needed to become a heating and ventilating, air conditioning and refrigeration technician. As part of the hands-on program, students will learn to maintain, diagnose and correct problems or sophisticated technical equipment. Installation, maintenance and repair of residential forced air heating systems, hydronic heating systems, electric furnaces, oil burners, heat pumps, and air conditioners are taught. Sheet metal work and light commercial HVAC equipment are included in the second year of the program.

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### **Network Technician**

The Network Technician program establishes the foundation for a career in the computer networking field. Students learn about LANs and WANs, hubs switches, and routers-the basic components that allow communications between computers in the same room and around the world via the Internet. The network technician program follows the industry recognized Cisco CCNA Networking Academy curriculum, developed by Cisco Systems to train over 70,000 technicians in more than 60 countries worldwide. Successful completion of the Cisco Network Academy program prepares you to certify as a Cisco Certified Network Associate (CCNA), the foundation certification in the Cisco certification series.