Program Quick Guide 2020-2021

Technology Center of DuPage (TCD) offers DuPage County area high school juniors and seniors career and technical education programs (CTE) as part of their high school curriculum. Its mission is to provide an education environment that supports and encourages individual learning styles, develops occupational skills and professionalism, promotes academic growth, and assists students in discovering their potential. In addition to high school credit, TCD students may concurrently earn dual credit (college credit earned while in high school), by enrolling at no cost with the college during the designated timeframe. A reading or math placement test may be required prior to enrolling. Colleges offering dual credit include College of DuPage, Kishwaukee Community College, and Joliet Junior College (depending on the TCD program). Technology Center of DuPage features a quarter million square foot campus, state-of-the-art technology, and up-to-date skills instruction used in today's high-demand careers. Tuition and bus transportation are covered by the participating partner high school districts through a combination of local, state, and federal funding (Perkins Act). Some districts charge students a fee to enroll, otherwise, the only cost to the student is a modest participation fee for books and necessary supplies.

Governing Board: DACES (DuPage Area Occupational Education System)
Fourteen appointed voting members, one from each member district.
Member High School Districts:

Hinsdale Township H.S. District 86
- Hinsdale Central H.S.
- Hinsdale South H.S.

Glenbard Township H.S. Dist 87
- Glenbard East H.S.
- Glenbard North H.S.
- Glenbard South H.S.
- Glenbard West H.S.

DuPage H.S. District 88
- Addison Trail H.S.
- Willowbrook H.S.

Community H.S. Dist. 94
Community H.S. Dist. 99
- Downers Grove North H.S.
- Downers Grove South H.S.

Fenton CHSD 100
Lake Park CHSD 108
Wheaton-Warrenville CUSD 200
- Wheaton North H.S.
- Wheaton Warrenville South H.S.

Westmont CUSD 201
Lisle CUSD 202

Naperville CUSD 203
- Naperville Central H.S.
- Naperville North H.S.

Indian Prairie School District 204
- Metea Valley H.S.
- Neuqua Valley H.S.
- Waubonsie Valley H.S.

Elmhurst CUSD 205
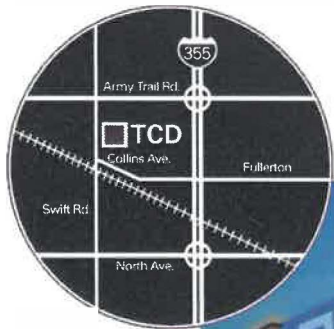- York Community H.S.

Lyons Township H.S. District 204

For more information, or to schedule a tour of TCD (individual or group) please contact our main school number and ask to speak with a counselor:

630.620.8770

Technology Center of DuPage
301 S. Swift Road, Addison IL 60101

Get ready for college - ready for a career!

OH 12_2019

TECHNOLOGY CENTER OF DUPAGE
301 South Swift Road
Addison, IL 60101-1499
Telephone: 630-620-8770
Fax: 630-691-7592

www.tcdupage.org

Auto Body Repair & Refinishing
ASE/I-Car Certified Instructor. Metal straightening/sheet metal work., welding techniques, body panel repair and an alignment, cost/time estimating, plastic/fiberglass repairs, refinishing techniques, detailing and striping, shop management, State-of-the-art equipment including: Spraybake paint curing system, computerized paint lab, spray booth and welding stations.

Automotive Technology
ASE Certified Instructors. Skill building in the following areas: engine tune up/lubrication, brakes, electrical, fuel, cooking, exhaust systems, wheels, steering and alignment. 2 year students perform diagnostics and build engines.

Computer Information Systems & Game Design
Design games, websites and apps. Coding, storyboarding and 3D character development. Programs include Java, HTML, 3D Studio Max, Visual Studio (Visual Basic and C#) GameMaker & Adobe Photoshop.

Construction Trades
Job-site safety, proper use of hand/power tools, construction math. Carpentry skills including, framing walls and ceilings, floor installation, roofing, window/door installation. 2nd year students: drywall installation/finishing, trim work, plan/blueprint reading and site layout.

Cosmetology
*Additional fees for kits, spring and summer •
Follows Illinois Department of Financial and Professional Regulation (IDFPR) state Cosmetology curriculum (1500 hours req.) Skills include: cuts, colors, perms, nail care, aesthetics & make-up. Suggested prerequisite classes include: chemistry, anatomy & geometry. Up to 46 hours of college credit are available upon successful completion of course requirements. ** Students need Social Security Number for Illinois State Examination.**

Criminal Justice
Traffic law and enforcement, criminal and juvenile law, crime prevention, courts and correctional system, homeland security, criminal investigation and police report writing. Simulations, demonstrations and guest presenters will enhance curriculum. Hands-on activities include traffic stops, field interviews, handcuffing, searching, fingerprinting and basic crime scene processing and mock trials.

Early Childhood Education & Care
Child growth and development, basic philosophies of early childhood education, learning to maintain a safe, healthy an educational environment for children. Students will develop curriculum and age-appropriate activities and learning experiences and then implement them in on-site lab preschool for ages 3- 5 year old children. Upon high school graduation and enrollment in a community college, the credentialed student qualifies for a Gateway Scholarship to pursue an Associate's Degree. 90 percent of tuition covered by scholarship up to and including a master's degree in ECE.

Emergency Medical Technician
Follows the standards of training in Emergency Medical Technician (EMT) National Standards. Once student reaches age 18, upon completion, students are eligible to take the state or national EMT licensing exam for the EMT-B certificate. **Students must have a Social Security Number upon registering for this class to sit for the National Exam.••

Fire Science
Follows the standards of training in NFPA 1001 (National Fire Protection Association) Standards for Firefighters, and IFSTA Essentials. Topics include safety, history, fire behavior, rescue/extrication techniques, communications, tactics and strategy, equipment use and maintenance. CPR is also covered.

Healthcare Foundations
Course is designed to meet the National Health Science Standards for healthcare foundations. Topics include: Overview of the modern Healthcare Delivery System and its broad spectrum of career pathways. Research, lab activities and group projects in medical terminology, basic anatomy, physiology, common disease/disorders, wellness and nutrition, growth and development, medical math and legal, ethical, cultural and social issues. Professional skills such as teamwork and communication will be covered.

Heating, Ventilation, Air Conditioning & Refrigeration (HVACR) /Residential Wiring
1st semester safety, mechanical and electrical fundamentals. T heory and electrical skills including single circuits, parallel circuits and motor controls. Sequence of operation of gas-fired, forced-air heating system. Installation, service, testing and replacement of forced-air heating system. 2nd semester air-conditioning fundamentals, soldering, brain, proper refrigerant handling.

Medical Terminology & Healthcare Careers
Topics include: biomedical terminology as it relates to each body system and to healthcare careers and medical specialities. Guest speakers, multimedia assignments, interactive SMART board activities, authentic lab activities, word games and case studies. Explore Select medical math topics and learn job-seeking skills.

Multimedia & Television Production
Radio and TV broadcasting, script writing, computer editing, digital video, digital audio, multi-track recording, set design, studio lighting, remote lighting, video graphics and animation.

Nursing Assistant Training Program
Additional fees for testing and certification
Curriculum approved by the Illinois Department of Public Health. Topics covered include: body systems, the nature of disease, common health problems and medical terminology. Safely lifting, moving and transporting patients. Measuring and recording vital signs, reporting observations, personal care, technical skills and responding to a variety of patient conditions. **Students MUST have a Social Security Number upon registering for the class for Illinois State Licensing and Dual Credit with COD.••

Manufacturing, CNC and Machining Technology
Students will use 2D modeling software, such as Revit, AutoCAD (computer aid design), Inventor and Adobe to complete projects related to architecture, construction, manufacturing, civil engineering, medical technology and more. 30 parametric solid-part modeling software will also be used to create prototypes with TCD's state-of-the-art 3D printers. Learn how to control Computer Numerically Controlled (CNC) machine tools and how to program and operate CNC machining and turning centers.

Professional Cooking, Baking & Service (Pro-CBS)
Cooking, baking, knife skills and service training. All students will complete a 3-week rotation exploring cooking, baking and service careers. The rest of the year is a student's choice; continuing in a dual credit/certification pathway of Cooking or Baking, or operating the "TCD to Go" quick-serve restaurant. 2nd year students spend 6 weeks in C-B-5 Boot Camp working in teams to develop a restaurant concept, which they will then implement.

Robotics & Automation Technology
Students will learn the different aspects of electrical and mechanical engineering technology and careers. Topics covered in the course include: mechanics, electrical and motor controls, robotic programming and operation and how these skills are used in the highly trained field of automation technology. Students will have the opportunity to earn FANUC certification and Robot Operator I and II Certification. College credit will be available with the College of DuPage. Students enrolling as juniors in the program will have the opportunity to be placed in a work-based learning opportunity their senior year with a local company.

Welding Technology
Develop skill in creating fundamental welding joints (butt, T, lap and corner). Work with processes including: SMAW (shielded metal arc welding), GMAW (gas metal arc welding), GTAW (gas tungsten arc welding) and oxyacetylene. Welding, cutting and brazing. Estimating, accurate measurement techniques, shop expansion, time management, industrial math and communication skills. 2nd-year students will learn to interpret fabrication blueprints, including welding symbols, metal shapes and specifications

For more information, visit us at
www.tcdupage.org