

TCD Course Quick Guide 2020 - 2021						
Course	Grade	Cost Est.	College Credit	Credit/Semester	Certifications	Focus of Program
Auto Body Repair & Refinishing	11/12	\$100.00	Pending	Pending	I-CAR certified program May achieve points for I-CAR platinum status S/P2 (Safety & Pollution Prevention Certification)	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	11/12	\$100.00	3/yr 1 2*	6/yr 3/Spring - 1st yr 6/Spring - 2nd yr	supported by AYES Qualify for certification exams for ASE (Automotive Service Excellence) ratings based on 2 year coursework completion ASE Refrigerant Recovery and Recycling Certification S/P2 (Safety & Pollution Prevention) Certification	ASE Certified Instructors. Skill building in the following areas: engine tune up/lubrication, brakes, electrical, fuel, cooling, exhaust systems, wheels, steering and alignment. 2 year students perform diagnostics and build engines.
Computer Information Systems & Game Design	11/12	\$100.00	10*	4/Fall 6/Spring	AutoDesk 3ds Max Design (Upon completion of coursework, students are eligible to take the Microsoft C++ and/or the AutoDesk University Certified Associate Exams)	First semester focuses on looking at the mechanics of games: how they work, what is the structure underneath the games, how to implement those structures, how to program the computer to make those structures a thing that students can interact with. Second semester builds on the foundational skills of first semester: designing 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	11/12	\$100.00	2	2/Spring	OSHA 10 Certification State Certified Cosmetology Program	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: <u>drywall installation/finishing, trim work, plan/blueprint reading and site layout.</u>
Cosmetology	11/12	\$450.00 + \$100.00/yr 1 \$300.00 + \$100.00/yr 2	up to 46*	Varies	Prepares students for Illinois State Cosmetology License Exam S/P2 (Safety & Pollution Prevention) Certification	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	11/12	\$100.00	6	3/Fall 3/Spring	American Heart Association HeartSaver CPR/AED and First Aid Certification CERT (Community Emergency Response Team) Training/Certification	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 <u>and mock trials.</u>
Early Childhood Education & Care	11/12	\$100.00	3*	3/Spring	Illinois Gateway Credentials for Early Childhood - Level 1 Credential American Heart Association: HeartSaver CPR/AED and First Aid Certification Healthcare Provider Level 1 Certification	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	12	\$100.00	11*	1/Fall 10/Spring	First Responder Defibrillator (FR-D) state license Emergency Medical Technician (EMT) license	Follows the standards of 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	11/12	\$100.00	7	4/Fall 3/Spring	National Incident Management System (NIMS) 700 certification Courage to Be Safe certification Leadership, Accountability, Culture & Knowledge (LACK) certification	Follows the standards of training in NFPA 1001 (National Fire Protection Association) Standards for Firefighters. Topics covered include safety and fire behavior, rescue/extrication techniques, communications, equipment use and maintenance, CPR and EMR (Emergency Medical Responder).
Healthcare Foundations	11/12	\$100.00	N/A	N/A	Authorized training site with Certified Instructor for American Heart Association American Heart Association: HeartSaver CPR/AED American Heart Association: First Aid certification	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)	11/12	\$100.00	4	4/Spring	EPA certification through the ESCO Institute OSHA 10 certification	1st semester safety, mechanical and electrical fundamentals. Theory 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.
Manufacturing, CNC & Machining Technology	11/12	\$100.00	Pending	Pending		Students will use 2D modeling software, such as Revit, AutoCAD (computer aided 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.
Medical Terminology & Healthcare Careers	11/12	\$100.00	5*	5/Spring	N/A	Topics include: biomedical terminology as it relates to each body system and to healthcare careers and medical specialties. 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	11/12	\$100.00	9	3/Fall 6/Spring	N/A	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*	11/12	\$100.00	7*	7/Spring	State approved Nursing Assistant Training program Nursing Assistant Certification Exam Eligibility American Heart Association: HeartSaver CPR/AED 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.**
Professional Cooking, Baking & Service (Pro-CBS)	11/12	\$100.00	7*	7/Spring	Program American Culinary Federation Educational Foundation (ACFEF) Accredited program American Culinary Federation Certified Fundamentals Cook ProStart Sanitation Certification of Achievement ServSafe Sanitation Certification: Food Protection Manager ServSafe Allergens Certificate of Completion Wisconsin Milk Marketing Board Cheesecyclopedia: Certificate of Completion S/P2 (Safety & Pollution Prevention) certificate	Students will have the opportunity earn industry certifications and college credit working with award winning instructors in a state-of-the-art commercial kitchen. The TCD program is the only high school in Illinois with ACF accreditation which ensures that students exposed to established standards and high levels of professionalism as well as up to date industry practices. The curriculum blends back of the house and front of the house content starting with equipment safety and sanitation. From there you will move into cooking and baking techniques including essentials such as nutrition and sustainability. Skills culminate with an annual fundraising event with proceeds benefiting student activities.
Robotics & Automation Technology	11/12	\$100.00	9	3/Fall - 6/Spring	Fanuc Robot Operator 1 certification (NOCTI) online	Students will learn the different aspects of electrical and mechanical engineering technology. Topics covered in the course include robotic programming and operation, mechanics, electrical and motor controls 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. 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	11/12	\$100.00	3	3/Spring	OSHA 10 certification	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.
* Denotes prerequisite testing						