

### TCD Health Science and Technology Pathway Programs

Program	COD Dual Credit	Total Hours	Work-Based Learning	Certifications	Career Opportunities
Fire Science 1 year (Junior or Senior)	FIRE 1100 Introduction to Fire Science (3 Credits)	7	13 hour ride along shift local fire station	<ul style="list-style-type: none"> <li>● CPR/AED Certification</li> <li>● NIMS 100, 200, 700, 800</li> <li>● Courage To Be Safe</li> </ul>	<ul style="list-style-type: none"> <li>❖ Ambulance Driver and Attendant</li> <li>❖ Hazardous Materials Removal</li> <li>❖ Public Safety Telecommunicator</li> <li>❖ EMT or Paramedic</li> <li>❖ Firefighter</li> </ul>
	FIRE 1150 CPR - Basic Life Support for Healthcare Professionals (1 Credit)				
	FIRE 2221 - Tactics I (3 Credits)				
Emergency Medical Technician 1 year (Senior)	FIRE 2271 Emergency Medical Technician (10 Credits)	11	13 hours with fire department 12 hours with Private Ambulance <u>16 hours hospital</u> <b>41 Clinical Hours</b>	<ul style="list-style-type: none"> <li>● CPR/AED Certification</li> <li>● EMT Certification</li> </ul>	
	FIRE 1150 CPR - Basic Life Support for Healthcare Providers (1 Credit)				
Medical Terminology 1 year (Junior or Senior)	HLTHS 1100 Survey of Health Care Careers (2 Credits)	5			<ul style="list-style-type: none"> <li>❖ Nursing Assistant</li> <li>❖ Phlebotomist</li> <li>❖ Physical Therapist</li> <li>❖ Registered Nurse</li> <li>❖ Nurse Practitioner</li> <li>❖ Medical Assistant</li> <li>❖ Medical Administrative Assistant</li> <li>❖ Medical Records and Health Information</li> </ul>
	HLTHS 1110 Biomedical Terminology (3 Credits)				
Nursing Assistant Training Program 1 year (Junior or Senior)	NURSA 1105 Nurse Assistant Training (6 Credits)	13	40 Clinical Hours	<ul style="list-style-type: none"> <li>● Illinois Nurse Assistant Competency Exam</li> <li>● Adult/Infant/Child CPR/AED Certification</li> </ul>	
	CSPD 1111 Central Sterile Processing and Distribution (3 credits)				
	SURGT 1000 Ethical Considerations in the Healthcare Industry (3 credits)				
	1150 CPR - Basic Life Support for Healthcare Providers (1 Credit)				
Medical Assisting 1 year (Senior)	SURGT 1000 Ethical Considerations in the Healthcare Industry (3 credits)		160 Clinical Hours	Registered Medical Assistant	

## TCD Arts and Communication Pathway Programs

Program	COD Dual Credit (Year 1)	Total Hours	Work-Based Learning	Certifications	Career Opportunities
Multimedia and Television Production 1-2 years (Junior or Senior)	MPTV 1011- Introduction to Motion Pictures and Television (3 Credits)	9	Potential 2nd Year Employer Internship or Advanced Curriculum		<ul style="list-style-type: none"> <li>❖ Motion Picture Projectionist</li> <li>❖ Producers and directors</li> <li>❖ Camera operators, television, and video and film</li> <li>❖ Animator</li> <li>❖ Film and video editors</li> <li>❖ Audio and Video Equipment Technician</li> <li>❖ Graphic Designer</li> <li>❖ Public Relations Specialist</li> <li>❖ Multi-Media Artist and Animator</li> <li>❖ Librarian</li> </ul>
	MPTV 1020 - Editing for Motion Pictures and Television (3 Credits)				
	MPTV 1220 Introduction to Television Production (3 Credits)				

## TCD Information Technology Pathway Program

Program	COD Dual Credit (Year 1)	Total Hours	Work-Based Learning	Certifications	Career Opportunities
Computer Information Systems and Game Design 1 -2 years (Junior or Senior)	CIS 1211 - 2D Game Development (3 Credits)	10	Potential 2nd Year Employer Internship or Advanced Curriculum		<ul style="list-style-type: none"> <li>❖ Computer User Support Specialist</li> <li>❖ Web Developer</li> <li>❖ Computer System Analyst</li> <li>❖ Software Developer</li> <li>❖ Information Security Analyst</li> <li>❖ Blockchain Engineers</li> <li>❖ Cybersecurity</li> <li>❖ Digital Forensic Analyst</li> <li>❖ Information Security Engineerings</li> <li>❖ CTE Instructors</li> </ul>
	CIS 1199 - Introduction to Game Industry (3 Credits)				
	CIS 1400 - Programming Logic and Technique (4 credits) <i>*May require additional components</i>				

## TCD Manufacturing, Engineering, Technology and Trades Pathway Programs

Program	COD Dual Credit	Total Hours	Work-Based Learning	Certifications	Career Opportunities
Construction Trades 1 -2 years (Junior or Senior)	ARCH 1141 Construction Methods I	2	Potential 2nd Year Employer Internship or Advanced Curriculum	OSHA 10 (Year 1) OSHA 30 (Year 2)	<ul style="list-style-type: none"> <li>❖ Surveying and Mapping Technician</li> <li>❖ Mechanical Drafter</li> <li>❖ Mechanical Engineering Technician</li> <li>❖ Architectural and Civil Drafter</li> <li>❖ Civil Engineer Technician</li> <li>❖ Construction and Building Inspector</li> <li>❖ Electrical and Electronics Drafter</li> <li>❖ Industrial Engineering Technician</li> <li>❖ Mechanical Engineering Technician</li> <li>❖ Civil Engineer</li> <li>❖ Industrial Engineer</li> <li>❖ Mechanical Engineer</li> <li>❖ Chemical Engineer</li> <li>❖ CTE Instructors</li> </ul>
Heating, Ventilation, AC and Refrigeration/Residential Wiring 1 -2 years (Junior or Senior)	HVACR 1105- Introduction to Safety, Materials and Equipment (3 Credits) HVACR 1108 - Refrigerant Certification (1 Credit)	4		OSHA 10  EPA 608 refrigerant Certification	
Robotics and Automation 1 -2 years (Junior or Senior)	<b>Year 1</b> ELECT 1100 – Electronics Fundamentals (3 Credits) ELMEC 1171 – Introduction to Robotic Technology (3 Credits) ELMEC 1110 – Motor and Generator Fundamentals (3 Credits) <b>Year 2</b> ELMEC 1141 – Hydraulics and Pneumatics (3 Credits) ELECT 1141 – Digital Fundamentals (3 Credits)	15		FANUC Certification: Robot Operator with ROBOGUIDE  Festo Certifications (NC3) - Pneumatics - Hydraulics - Electricity - DC - Electricity - AC	<ul style="list-style-type: none"> <li>❖ Packaging and Filling Machine Operator</li> <li>❖ Multiple Machine Tool Operator</li> <li>❖ Machinist</li> <li>❖ Welder, Cutter, Solderer, and Brazer</li> <li>❖ CNC Programmer</li> <li>❖ Industrial Machinery Mechanic</li> <li>❖ Robotic Operator</li> <li>❖ Robotic Diagnostics</li> <li>❖ CTE Instructors</li> </ul>
Welding Technology 1 -2 years (Junior or Senior)	<b>Year 1</b> WELD 1100 - Welding 1 (3 Credits) <b>Year 2</b> WELD 1122 - Shielded ARC Welding (SMAW) (3 Credits) WELD 1132 - Metal Inert Gas Carbon Steel (MIG) (3 Credits)	9		OSHA 10 (Year 1)	

Automotive Technology Tentative 1 -2 years (Junior or Senior)	<b>Year 1</b> AUTO 1040 - Automotive for Non-Majors (3 Credits)	9	Potential Community Work hours	ASE - Automotive Service Excellence	<ul style="list-style-type: none"> <li>❖ Automotive Engineer</li> <li>❖ Transportation, Storage, and Distribution Managers</li> <li>❖ Engineering Teachers, Postsecondary</li> <li>❖ Automotive Service Technician</li> <li>❖ Bus, Truck, and Diesel Engine Mechanic</li> <li>❖ Mobile Heavy Equipment Mechanic</li> </ul>
	<b>Year 2</b> AUTO 1110 Engine Design and Operation (3 Credits) AUTO 1140 Suspension, Steering and Alignment (3 Credits)				
Auto Body Repair and Refinishing			Potential Community Projects	I-CAR Certification S/P 2 Safety Training	<ul style="list-style-type: none"> <li>❖ Automotive Glass Installer and Repairer</li> <li>❖ Automotive Body Repairer</li> <li>❖ CTE Instructors</li> </ul>

### TCD Human and Public Service Pathway Programs

Program	COD Dual Credit	Total Hours	Work-Based Learning	Certifications	Career Opportunities
Early Childhood Education and Care 1 -2 years (Junior and/or Senior)			1st and 2nd year Preschool Experience	Level 1 ECE CPR Training	<ul style="list-style-type: none"> <li>❖ Preschool teacher</li> <li>❖ Municipal and Licensure Clerk</li> <li>❖ Elementary, Middle, or High School Teacher</li> </ul>
Cosmetology Phase 1 and Phase 2 (Junior and/or Senior)	COSME 1101 Introduction to Cosmetology (3 Credits) COSME 1103 Chemical Services I (3 Credits) COSME 1105 Hair Styling I (3 Credits) COSME 1107 Thermal Styling I (3 Credits) COSME 1111 Hair Styling II (3 Credits) COSME 1113 Chemical Services II (3 Credits) COSME 1115 Salon Operations I (2 Credits) COSME 1117 Esthetics and Nail Technology I (3 Credits) COSME 2201 Hair Styling III (3 Credits) COSME 2203 Chemical Services III (3 Credits) COSME 2205 Esthetics and Nail Technology II (3 Credits) COSME 2207 Salon Safety and Sanitation (2 Credits) COSME 2221 Hair Styling IV (3 Credits) COSME 2223 Chemical Services IV (3 Credits) COSME 2225 Salon Operations II (3 Credits) COSME 2227 Thermal Styling II (2 Credits) COSME 2250 License Review (3 Credits)	48	1,500 Clock hours	Illinois State Certified Cosmetology Program	<ul style="list-style-type: none"> <li>❖ Hairdresser</li> <li>❖ Hair Stylist</li> <li>❖ Cosmetologist</li> <li>❖ Aesthetician</li> <li>❖ Manicurist</li> <li>❖ Pedicurist</li> </ul>
Criminal Justice 1 year (Junior or Senior)	CRIMJ 1100 Introduction to Criminal Justice (3 Credits) CRIMJ 1110 Police Operations and Procedures (3 Credits)	6			<ul style="list-style-type: none"> <li>❖ Security Guard</li> <li>❖ Police and Sheriff's Patrol Officer</li> <li>❖ Computer System Analyst</li> <li>❖ Information Security Analyst</li> <li>❖ Lawyer</li> <li>❖ CTE Instructors</li> </ul>

## TCD Business and Finance Pathway Programs

Program	COD Dual Credit (Year 1)	Total Hours	Work-Based Learning	Certifications	Career Opportunities
Professional Cooking, Baking, and Service 1-2 years (Junior or Senior)	CULIN 1120 - Food Service and Sanitation (COD)(1 Credit) CA 112 - Principles of Food Preparation(JJC) (3 Credits) CA 152 - Quantity Food Preparation II (JJC) (3 Credits)  *JJC requires SSN	7	Potential 2nd Year Employer Internship or Advanced Curriculum	ServSafe Food Handler Certification  ServSafe Managers Certification  ServSafe Allergen Certificate  American Culinary Federation Certification  Wisconsin Milk Marketing Board Cheese Certification  Sustainability Stewardship SP/2 safety/ Professional Skills Training	<ul style="list-style-type: none"> <li>❖ Business and Finance</li> <li>❖ Hospitality and Tourism</li> <li>❖ Business Management</li> <li>❖ Operations Manager</li> <li>❖ Training Supervisor</li> <li>❖ Chef or Head Cook</li> <li>❖ Meeting, Convention and Event Planner</li> <li>❖ Restaurant Manager</li> <li>❖ Sales Representatives</li> <li>❖ Entrepreneur</li> <li>❖ Private Chef</li> <li>❖ CTE Teacher</li> <li>❖ Self-Enrichment Teacher</li> </ul>