

2022-2023
REGISTRATION INFORMATION GUIDE
FOR
HENNEPIN TECHNICAL PATHWAYS
OFFERED AT
HENNEPIN TECHNICAL COLLEGE

Attached is course information to for your high school registration guide. We appreciate the inclusion of this information in your guide in the appropriate class/department category.

Should you have questions, please contact:

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Thank you for your continued partnership.

Revised 1/05/2022

Hennepin Technical Pathways Courses available at Hennepin Technical College

Intermediate District 287's Career Courses focus on career skill development experiences and exploration.

CAREER COURSES

Career courses are designed to assist students in making career decisions. Hands-on instruction is emphasized. Each course offers a broad array of information from similar careers within an industry. From here, students could use the skills and knowledge learned to branch off into a post-secondary career choice or explore employment in the area of study.

Class activities will include:

- Exposure to equipment and practices representative of current industry standards
- Lab projects designed to “put it all together”

Students will:

- Gain an understanding of the opportunities available within their chosen field of study
- Develop a foundation of technical knowledge and skill development
- Acquire a deeper understanding of each related college offerings and how it matches their interests, abilities and aspirations

Courses are scheduled to meet for approximately two hours during the school day, Monday through Friday. Students should see their high school counselor for additional information.

Classes: 8:30 – 10:10 a.m. 10:25 – 12:05 p.m. 12:35 – 2:15 p.m.

Articulated Credit

The majority of our programs offer articulated college credit with post-secondary schools within the state of Minnesota.

Students taking Pathways courses may earn articulated college credit through HTC or other Post-Secondary Institutions by satisfactorily completing the course requirements and by obtaining a grade of an A or B. To receive college credit, after graduation, students must enroll in a degree program at a post-secondary institution, download their credit from www.CTEcreditmn.com, and bring the credit with them to the college's admissions department.

Business, Management, & Administration	
Hospitality and Tourism	
<p>Culinary Arts – Fall Semester* 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>This course is intended to introduce students to a variety of careers in the food service industry. Students will experience a number of career areas through both technical and hands-on skills. Employment opportunities and career advancement will be discussed and explored. Food preparation experiences will range from the very basic to gourmet. Students will also explore some specialty career areas within the food service industry.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Introduction to the food service industry • Safety and sanitation • Reading and conversion of recipes • Tools and Equipment • Basic principles of cooking and food science • Mise En Place • Stocks and Sauces • Soups • ANSI accredited food handling and kitchen manager certification opportunities possible. *Note-There is a fee associated with the manager certification. 	<p>Culinary Arts – Spring Semester* 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>This course offers a more advanced level of culinary training tailored to the standards of the culinary industry. Students will be expected to perform at entry-level industry standards. Hands-on activities are about 70 percent of the coursework.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Vegetable cookery • Potato cookery • Legumes, grains, pasta and starch cookery • Meat, poultry, and seafood cookery • Salad dressings and Salad • Sandwiches • Breakfast Cookery • Intro to baking • ANSI accredited food handling and kitchen manager certification opportunities possible. *Note-There is a fee associated with the manager certification.

Business, Management, & Administration				
Hospitality and Tourism				
<p>Cooking for Independent Living – Fall or Spring Semester 8:00 a.m. and 10:00 a.m. <i>(No articulated credit is available for this course.)</i></p> <p>This course introduces the student to basic food preparation skills for use in the home setting as well as on the job. The student will learn to prepare balanced meals with emphasis on nutrition and personal economics. This course is designed for students who are developing transition skills.</p> <p>Students who continue in the Spring Semester will build on skills learned Fall Semester, increasing their level of independence.</p> <p><i>Areas of Study</i></p> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Menu planning • Economy - budgeting • Nutrition </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Food preparation skills • Shopping for food • Knife skills </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Sanitation and safety • Measurements • Full meal preparation </td> </tr> </table>		<ul style="list-style-type: none"> • Menu planning • Economy - budgeting • Nutrition 	<ul style="list-style-type: none"> • Food preparation skills • Shopping for food • Knife skills 	<ul style="list-style-type: none"> • Sanitation and safety • Measurements • Full meal preparation
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**Emergency Medical Responder (EMR) –
Fall or Spring Semester 10:25 a.m. & 12:35 p.m.**

This course offers articulated college credit worth 3 semester credits.

This course prepares students to provide immediate lifesaving prehospital assessment and care for patients of all ages until additional medical help arrives. Students will learn about responder roles, responsibilities, and legal concerns as well as patient assessment, care and stabilization. Additional topics of study include an introduction to emergency medical services systems, anatomy and physiology, responder safety and career opportunities. Practical skills required for EMR's to deal with medical and traumatic emergencies will be taught and students will be trained in professional rescuer CPR.

Areas of Study

- The Emergency Medical System
- Responder Safety and Wellness
- Medical, Legal, and Ethical Issues
- Communication, Documentation and Terminology
- Anatomy and Physiology
- Airway Management
- Patient Assessment
- Medical Emergencies
- Bleeding, Shock, and Musculoskeletal Injuries
- Childbirth
- Pediatric and Geriatric Emergencies
- Patient Extrication, Movement and Transport

Medical Terminology-Fall or Spring Semester 8:30 in-person, or online asynchronous or hybrid

This course offers articulated college credit worth 3 semester credits.

Medical terminology is a college level terminology course and a required college-level course for all medical post-secondary and career pathways. Students will use the textbook to study medical terminology and its relevance to medical careers. Articulated credit will be awarded to students who score 80% or higher on all assessments.

This course involves less hands-on training than other Pathways courses, but it satisfies a critical component of a medical education early and at no cost to the student.

This course can be taking in-person at 8:00, and can also be taken online, asynchronously, so students can work on it at their convenience.

Students who take the course asynchronously are welcome to come to the 8:00 in-person section whenever they need and are able to for support.

Areas of Study

- Anatomy and Physiology
- Medication
- Pathology
- Medical Equipment
- Clinical Settings
- Clinical Professions and Roles
- Patient Assessment
- Medical Emergencies
- Pediatric and Geriatric Emergencies
- Patient Extrication, Movement and Transport

Health Science Technology	Health Science Technology
<p data-bbox="355 134 548 165" style="text-align: center;">Health Science</p> <p data-bbox="105 184 537 247">Nursing Assistant – Fall or Spring 8:30 a.m., 10:25 a.m. & 12:35 p.m.</p> <p data-bbox="105 252 706 312"><i>This is an articulated course – see page 2 for more details.</i></p> <p data-bbox="105 352 784 751">This course prepares students for entry-level patient-care employment. Students will acquire skills in basic nursing, human-needs rehabilitation, and restorative services. Skills are practiced in a supervised laboratory and in a long-term care facility. Upon successful completion, students will be eligible to take the MN State Nursing Assistant Competency exam. Successful completion of this course requires 80 percent or higher scores on each written test, completion of all skill demonstrations, completion of ALL scheduled clinical hours, and 90 percent or better attendance in classroom and lab. A mantoux test within 90 days of clinical is required.</p> <p data-bbox="105 787 289 819"><i>Areas of Study:</i></p> <ul data-bbox="155 825 641 1140" style="list-style-type: none"> • Resident rights • Safety and infection control • Communication • Death and dying • Nutrition • Personal care • Vital signs • Mental health rehabilitation • Introduction to Medical Terminology 	<p data-bbox="1068 134 1261 165" style="text-align: center;">Health Science</p> <p data-bbox="821 184 1198 247">Health Careers Fall or Spring Fall or Spring 8:30 AM.</p> <p data-bbox="821 346 1503 546">This exciting course is for students interested in exploring a career in the medical field. In addition to career exploration, students will also develop career goals, identify personal characteristics, learn medical terminology and be introduced to anatomy and physiology.</p> <p data-bbox="821 581 1495 676">This course can be taking in-person at 8:00, and can also be taken online, asynchronously, so students can work on it at their convenience.</p> <p data-bbox="821 714 1511 808">Students who take the course asynchronously are welcome to come to the 8:00 in-person section whenever they need and are able to for support.</p> <p data-bbox="821 846 1003 877"><i>Areas of Study:</i></p> <ul data-bbox="872 884 1487 1157" style="list-style-type: none"> • Safety and infection control • Personal characteristics, legal and ethical responsibilities • Career exploration in Diagnostics, Therapeutics, Health Informatics, Support Services and Biotechnology Research and Development • First Aid • Team member and leadership skills

Engineering, Manufacturing, & Technology	
Manufacturing	Manufacturing
<p>Auto Body Repair – Fall Semester* 8:30 a.m., 10:25 a.m. and 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>This introductory course to auto body technology teaches non-structural repair, collision damage estimating, and refinishing. This is a skill-building course that starts students on their way towards becoming proficient in the auto body industry.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Automotive refinishing • Detailing • Estimating • Safety Practices <p>*Note: There is a lab fee for this course.</p>	<p>Auto Body Repair – Spring Semester* 8:30 a.m., 10:25 a.m. and 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>In this course, students learn MIG welding, dent repair, and alignment of bolts on parts.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Cutting and heating processes • Welding • Non-structural repair • Disassembly, assembly, and alignment of bolt-on components • Advanced welding project <p>*Note: There is a lab fee for this course.</p>

Engineering, Manufacturing, & Technology	
Manufacturing	
<p>Advanced Auto Body Repair (Year 2)* Prerequisite: Student must have completed both Fall and Spring Semester Auto Body Repair courses and have instructor approval. Fall or Spring Semester 8:30 a.m., 10:25 a.m. and 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>Students refine their skills in repairing today’s technologically advanced cars that require knowledge of metals and plastics and proficiency in performing structural repairs using specialized equipment. Students will restore and refinish vehicles using skills learned in class.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Frame repair • Welding • Metal finishing • Painting • Alignment of body components <p>*Note: There is a lab fee for this course.</p>	

Engineering, Manufacturing, & Technology	Engineering, Manufacturing, & Technology
Manufacturing	Manufacturing
<p>Automotive Technology – Fall Semester * 8:30 a.m., 10:25 a.m. and 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>Students learn basic automotive systems and begin mastering tools, techniques, and maintenance procedures regularly performed on automobiles. Students will perform work on donated vehicles or their own vehicles, and conduct repair and maintenance procedures on tires, steering, suspension, and electrical systems. In addition, students will acquire shop safety habits essential to work in an automotive service shop. Experiences include using on-line automotive resources similar to those at automotive service centers to find information on all mass-produced vehicles.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Suspension and steering • Automotive electrical systems 	<p>Automotive Technology – Spring Semester * 8:30 a.m., 10:25 a.m. and 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>This course continues the study of fundamental automotive theories and operating systems. Students learn about automotive brake systems through lecture and hands-on activities. Students will learn brake theory, diagnosis, and repair. In addition, basic engine theory, fuel injection, ignition, and engine performance will be covered. (Fall Semester is not a prerequisite for the Spring Semester course.)</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Brakes • Engine theory • Engine performance

Engineering, Manufacturing, & Technology	Engineering, Manufacturing, & Technology
Manufacturing	Manufacturing
<p>Outdoor Motor Sports/Power Equipment I (Small Engines) – Fall or Spring Semester EPC – 8:30 a.m., 10:25 a.m. and 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>Students will learn how to maintain and repair ATVs, motorcycles, mini bikes, snowmobiles, personal watercraft, and small internal combustion engines used on power equipment such as lawn tractors, generators, trimmers, and leaf/snow blowers. Students will also learn engine maintenance, preventive care, problem solving, minor and major engine rebuilding, and how to achieve customer satisfaction. The curriculum focuses on skill building projects and troubleshooting. Students learn industry standards and current technology using both factory and after-market manuals and text.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Engine rebuilding • Repair and overhaul • Shop safety • Trouble-shooting techniques <p>Power Sports for the Enthusiast/Home Shop – Fall or Spring Semester EPC – 8:00 a.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>Power Sports for the Enthusiast focuses on both preventative and routine maintenance of power sports equipment. Students will learn how to properly store their seasonal equipment. Students will also set up and maintain a “home shop” learning how to budget and purchase tools and equipment, maintain their “shop” and perform projects required with the resources they have at their “shop”. Problem solving and critical thinking are two of the “tools” the students will frequently use.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • How to bleed hydraulic brakes • How to tighten a chain on a dirt bike • How to align the skis on a snowmobile • How to lower a motorcycle • How to wire in an integrated tail light • How to change impeller on an outboard 	<p>Outdoor Motor Sports/Power Equipment II (Small Engines)– Fall or Spring Semester EPC – 8:30 a.m., 10:25 a.m. and 12:35 p.m. <i>This is an articulated course – see page 2 for more details.</i></p> <p>Students in this advanced course will focus on skill building, diagnostics, trouble-shooting, preventive care, and minor and major engine rebuilding. A large emphasis will be placed on time management which will include ordering parts, customer communications, invoicing, and computer skills. Electrical components, along with reading schematics and the repair of these items, will also be a component of this course. Electrical motors and the various charging systems will be introduced. Students will learn to use a multimeter in coordination with manufacturer specific service manuals to diagnose, troubleshoot and correct electrical problems. Students will learn about various braking systems, starting systems and accessories common in the power sports field. Students will learn to diagnose, problem solve and repair these systems or accessories.</p> <p><i>Areas of Study</i></p> <ul style="list-style-type: none"> • Electrical components • Reading schematics • Repair and overhaul • Electrical motors and battery power • Brake Systems • Drive Systems • Accessories. <p><i>(Prerequisite: Student must have passed Outdoor Motor Sports/Power Equipment I.)</i></p>

Arts, Communications, & Information Systems

Information Technology

Introduction to Information Technology – Fall and Spring Semester

EPC – 8:30 a.m., 10:25 a.m. and 12:35 p.m.

This is an articulated course – see page 2 for more details.

This course will introduce the student to an overview of the IT principles which every business and computer student should understand. This course will present the changing role of the IT professional as well as introduce concepts that will be covered more fully in the 10 a.m. and 12:10 pm classes. This course will utilize hands –on experiences to maximize instruction.

Areas of Study

- IT Exploration (8:00 a.m.) Articulated

The 10:00 a.m. & 12:10 p.m. courses will focus on the following areas

- Information Systems- Articulated
- Animation (Stop Motion & 2D & 3D) Students will learn to animate your own project
- Build their dream computer in presentation form and present to the class
- PC Operating Systems Windows 10 -Articulated
- Open Source Operating Systems Redhat Linux Mint Fedora
- App Development