

**2013-2014
REGISTRATION INFORMATION GUIDE
FOR HENNEPIN TECHNICAL PATHWAYS
CLASSES OFFERED AT
HENNEPIN TECHNICAL COLLEGE**

Attached is course information to be included in 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:

Brooklyn Park Campus - BPC

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Eden Prairie Campus - EPC

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Thank you for your assistance.

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 branch off into a major for their college career choice.

Class activities will include:

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

Students will:

- Gain an understanding of the opportunities available within their chosen career cluster
- Develop a foundation of technical knowledge and skill development
- Acquire a deeper understanding of each related college major and how it matches their interests, abilities and aspirations
- May earn HTC articulated college credit by satisfactorily completing the course requirements and by obtaining a grade of an A or B

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: 8:00 – 9:40 a.m.
10:00 – 11:40 a.m.
12:10 – 1:50 p.m.

Construction Careers	Construction Careers
<p>Construction – Fall Semester EPC - 10:00 a.m. and 12:10 p.m.</p> <p>The goal of this course is to provide students with experiences and examples of the construction industry that will allow them to assess their own abilities and interests in the various construction disciplines.</p> <p>Students will participate in classroom, shop, and house-project activities. The activities in the shop and house project will allow the students to have hands-on opportunities in many construction disciplines.</p> <p>This experience will allow students to make informed career decisions for the future, while providing them with a useful background in the construction industry.</p> <p><i>Areas of Study may include:</i></p> <ul style="list-style-type: none"> • Residential Roof Coverings • Residential Blueprint Reading • Interior Trim • Introduction to Residential Construction • Builders Instrument • Materials & Methods <p>Note: There is a lab fee for this course.</p>	<p>Construction – Spring Semester EPC - 10:00 a.m. and 12:10 p.m.</p> <p>The goal of this course is to provide students with experiences and examples of the construction industry that will allow them to assess their own abilities and interests in the various construction disciplines.</p> <p>Students will participate in classroom, shop, and house-project activities. The activities in the shop and house project will allow the students to have hands-on opportunities in many construction disciplines.</p> <p>This experience will allow students to make informed career decisions for the future, while providing them with a useful background in the construction industry.</p> <p><i>Areas of Study may include:</i></p> <ul style="list-style-type: none"> • Introduction to CAD • Rafter Framing • Deck construction • Stair Framing • Siding <p>Note: There is a lab fee for this course.</p>

Culinary Arts Careers	Culinary Arts Careers
<p>Culinary Arts – Fall Semester BPC – 12:10 p.m. EPC – 10:00 a.m. and 12:10 p.m.</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 • Bakery production • Pantry production • Plate/platter garnishing • Restaurant management/food cost controls • Preparation of stocks, sauces, and soups • Appetizers, canapés, hors d’oeuvres <p>Note: There is a lab fee for this course.</p>	<p>Culinary Arts – Spring Semester BPC – 12:10 p.m. EPC – 10:00 a.m. and 12:10 p.m.</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"> • Introduction to breakfast cookery • Introduction to range food cookery – vegetables and starches • Range food cookery techniques – meats, poultry, fish and seafood • Introduction to multicultural cuisine • Introduction to cake decorating techniques • Introduction to ice sculpturing techniques • Introduction to meat fabrication • Advanced baking techniques <p>Note: There is a lab fee for this course.</p>

Culinary Arts Careers	Culinary Arts Careers
<p>Cooking for Independent Living – Fall or Spring Semester BPC – 8:20 a.m. (taught at North Education Center) EPC - 8:00 a.m. <i>(No Hennepin Technical College 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 economy. 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> <ul style="list-style-type: none"> • Menu planning • Economy - budgeting • Nutrition • Sanitation and safety • Measurements • Food preparation skills • Shopping for food • Knife skills • Full meal preparation <p>Note: There is a lab fee for this course.</p>	<p>Food Service Assistant – Fall or Spring Semester BPC - 10:05 a.m.* (taught at North Education Center) EPC - 12:10 p.m. <i>(No Hennepin Technical College articulated credit is available for this course.)</i></p> <p>Students will acquire a basic knowledge of the skills required to perform a variety of tasks in a particular area of food service through hands-on learning. Skill development will meet industry standards at the entry level. The area of job-related social skills will be covered and reinforced on a daily basis.</p> <p>Successful Student Profile Students should be willing and able to participate in group activities, communicate with those around them, and work independently. Students should be interested in the food service industry as a possible career.</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • Food sanitation and safety • Identification and use of commercial equipment (both small and large) • Following recipe procedures • Weighing and measuring • Following verbal and written directions • Preparation and presentation of foods <p>*Note: There is a lab fee for this course.</p>

Human Services Careers	Human Services Careers
<p>Law Enforcement –Fall Semester EPC – 10:00 a.m. and 12:10 p.m.</p> <p>This program is designed for students interested in law enforcement careers as a police officer, crime scene investigator, probation officer, etc. This program makes it possible for students to learn through very practical, hands-on training methods. Students will learn such things as crime scene investigations, police patrol procedures, fingerprinting, search warrant application and execution, and Minnesota State Laws and Criminal Code</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • The history and evolution of law enforcement • Criminals in history • Crime, criminals, and victims • U.S. Constitution and The Bill of Rights • Evidence identification and collection • Latent fingerprinting • Crime scene investigation • Case studies • Officer survival • Practical scenarios <p>Note: There is a lab fee for this course.</p>	<p>Law Enforcement –Spring Semester EPC – 10:00 a.m. and 12:10 p.m.</p> <p>This course continues the exploration into a career in law enforcement. Students will learn through hands-on training and practical scenarios such things as drugs and narcotics investigations, gangs and gang investigations, use of police dogs, and ethics in policing. Students will explore post-secondary law enforcement schools, employment with a law enforcement agency, and preparation for oral board panels. No prerequisites required.</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • Police policy and procedures • Gangs in the United States • Homeland security • Police Conduct • Narcotics • Search warrant and raid execution • Specialized weapons and tactics (S.W.A.T.) • Case studies • Job search and oral board preparation • Law enforcement programs <p>Note: There is a lab fee for this course.</p>
<p>Introduction to Fire Service – Fall Semester EPC – 8:00 a.m.</p> <p>This course is designed to familiarize students with today’s modern fire service. Students will study and learn about the history and evolution of today’s fire service. Students will understand the importance and significance of a comprehensive and systematic approach to fire protection including: suppression, prevention, public education, emergency medical service, hazardous materials response, and urban search and rescue. Other concepts will include: hiring practices, the working environment, customer service, physical fitness and training.</p> <p>Note: There is a lab fee for this course.</p>	<p>Introduction to Fire Service – Spring Semester EPC – 8:00 a.m.</p> <p>This course is designed to familiarize students with today’s modern fire service. Students will study and learn about the history and evolution of today’s fire service. Students will understand the importance and significance of a comprehensive and systematic approach to fire protection including: suppression, prevention, public education, emergency medical service, hazardous materials response, and urban search and rescue. Other concepts will include: hiring practices, the working environment, customer service, physical fitness and training.</p> <p>Note: There is a lab fee for this course.</p>

Medical Careers	Medical Careers
<p>Nursing Assistant – Fall Semester ONLY EPC – 8:00 a.m., 10:00 a.m., and 12:10 p.m.</p> <p>This course prepares students for entry-level patient-care jobs. Students will acquire skills in basic nursing, emergency response, 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 receive American Heart Association CPR and First Aid cards, and be eligible to take the state Nursing Assistant Registry exam. The cost for this exam may be reimbursed to students by an employer if hired as a nursing assistant in a nursing home within a certain amount of time. Successful completion of this course requires 80 percent or higher scores on each written test, completion of all skill demonstrations, completion of clinical hours, and 90 percent or better attendance. A mantoux test within 90 days of clinical is required. This course meets Federal and Minnesota Department of Health requirements.</p> <p>Students may continue exploring medical career pathways through enrollment in the Medical Careers course offered Spring Semester.</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • Resident rights • Safety and infection control • Death and dying • Common disease processes • Nutrition • Personal care • Vital signs • Emergency procedures including CPR and First Aid • Mental health rehabilitation • Communication and documentation <p><i>(Prerequisite: Students must pass a background check and one of the below:</i> MCA II score of 1050 or Grad score of 50 or MAP RT score of 220 or Accuplacer score of 56/60 or 8th Grade Reading Level.</p> <p>Note: There is a lab fee for this course.</p>	<p>Medical Careers – Spring Semester ONLY EPC – 10:00 a.m. and 12:10 p.m.</p> <p>This exciting course is for students interested in exploring a career in the medical field. Time is spent in class exploring options through a variety of learning methods including hands-on skills, role playing, discussions, and guest speakers.</p> <p>Topic areas assist the student to explore the legal and ethical responsibilities of a health care worker. Students will also explore a variety of medical career options, develop career goals, identify personal characteristics, learn medical terminology (the language of health professionals), and be given an introduction to anatomy and physiology of the human body.</p> <p>Completion of Fall and Spring Semesters provide an opportunity to continue a student’s education through enrollment in programs such as Licensed Practical Nursing, a Registered Nurse program, Emergency Medical Services, or Medical Assisting.</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • Medical terminology • Safety and infection control • Personal characteristics, legal and ethical responsibilities • Career job exploration: emergency medical careers, nursing/doctor, dental, dietary, radiology, biomedical engineering, medical laboratory, and medical office • Introduction to anatomy and physiology • Team member and leadership skills • Health Care Systems

Transportation Careers	Transportation Careers
<p>Auto Body Repair – Fall Semester EPC – 8:00 a.m., 10:00 a.m. and 12:10 p.m.*</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 • Painting <p>*Note: There is a lab fee for this course.</p>	<p>Auto Body Repair – Spring Semester EPC – 8:00 a.m., 10:00 a.m. and 12:10 p.m.*</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>
<p>Advanced Auto Body Repair - Fall or Spring Semester (Instructor approval required) EPC – 8:00 a.m., 10:00 a.m. and 12:10 p.m.</p> <p>Students hone their skills in repairing today’s technologically advanced cars that require knowledge of metals and plastics and proficiency in doing structural repairs using specialized equipment. Students will restore and refinish vehicles, and build trailers and carts 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>(Prerequisite: Student must have completed both Fall and Spring Semester Auto Body Repair courses.)</p>	

Transportation Careers	Transportation Careers
<p>Automotive Technology – Fall Semester EPC - 10:00 a.m. and 12:10 p.m.</p> <p>Students learn about 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 • Basic automotive electricity <p>Note: There is a lab fee for this course.</p>	<p>Basic Automotive Skills – Fall or Spring Semester BPC - 8:00 a.m. and 10:00 a.m. <i>(No Hennepin Technical College articulated credit is available for this course.)</i></p> <p>This course is designed for students with limited reading ability that have an interest in mechanical systems. It is an introductory course which will take a student and add to his or her skill level.</p> <p>Students will have an opportunity to explore the automotive industry and develop entry level skills by participating in many shop projects such as tire buster, oil changer, and automotive detailing.</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • Tire changing and balancing • Power tool identification • Hazardous waste regulation • Vehicle hoist procedure • Basic automotive maintenance <p>Automotive Technology – Spring Semester EPC – 10:00 a.m. and 12:10 p.m.</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 <p>Note: There is a lab fee for this course.</p>

Transportation Careers	Transportation Careers
<p>Outdoor Motor Sports/Power Equipment I – Fall or Spring Semester EPC – 10:00 a.m. and 12:10 p.m.</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. This series of courses, our facilities, and the instructor are nationally certified by the Equipment & Engine Training Council (EETC).</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>Transportation Program of Study – Fall or Spring Semester EPC - 8:00 a.m. <i>(No Hennepin Technical College articulated credit is available for this course.)</i></p> <p>This introductory course is designed for ELL students or students with limited reading ability that have an interest in mechanical systems. Students learn tool names and their usage, and put this information to practical use. Basic transportation electrical circuitry, its repair and schematics, will also be covered. This is an intensive, hands-on course to reinforce new words, ideas, and information, and to use them by participating in many shop projects. The student will use computer skills, visual skills, and diagnostics to evaluate and repair basic automotive systems.</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • Shop safety • Hazardous waste regulations and responsibilities • Dial caliper (fine measurements) • Vehicle hoist procedure • Basic automotive maintenance • Tire changing and balancing • Wire soldering techniques • Hand and power tool identification and usage
<p>Outdoor Motor Sports/Power Equipment II – Fall or Spring Semester EPC – 10:00 a.m. and 12:10 p.m.</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. This series of courses, our facilities, and the instructor are nationally certified by the Equipment & Engine Training Council (EETC).</p> <p><i>Areas of Study:</i></p> <ul style="list-style-type: none"> • Electrical components • Reading schematics • Repair and overhaul <p><i>(Prerequisite: Student must have passed Outdoor Motor Sports/Power Equipment I.)</i></p>	