

PROGRAM OF STUDIES

2020 – 2021

NORTHWEST TECHNICAL CENTER

71 South Main Street, St. Albans, Vermont 05478

Phone: (802) 527-0614 Fax: (802) 527-6469

maplerun.org/o/nwtc

Non-Discrimination Statement

The Northwest Technical Center (NWTC) does not discriminate on the basis of race, color, national origin, sex, disability, religion, sexual orientation, gender identity, age, and marital/civil union status in admission or access to, or treatment, or employment in, its programs and activities.

Admission Procedures and Requirements

1. The student will be introduced to NWTC programs through a presentation done by, or an individual meeting with, the high school counselor, case manager, or NWTC representative.
2. The student will have the opportunity to tour or shadow the NWTC after viewing the NWTC presentation, or at any time.
3. The NWTC Program of Studies will be available on the NWTC website: maplerun.org/o/nwtc. Paper copies will be available, by request, in the NWTC office or sending school Program of Studies.

4. Program admittance is based upon a completed application that reflects the student's success in the following three areas:

Attendance

Attitude and behavior

Advancement toward proficiency

5. A completed and signed application must be submitted to the NWTC office or designated area by a preferred deadline of January 15th. Applications submitted after that date will be processed and placement will be made on a space available basis.
6. The Northwest Technical Center Admissions Committee will review all applications

Certain situations might warrant the use of an additional assessment tool to determine the appropriateness of program placement. Please see the NWTC School Counseling Coordinator if you are interested in pursuing this option.

Some students may be eligible to enter the second year of a program without completing the first. In these cases, the student will be asked to submit proof of competency in the field in question to the NWTC School Counseling Coordinator and/or the program instructor. Students may be granted admission based on the demonstrated proficiency of their work.

Students and their home school counselors will be notified as soon as possible regarding each student's official admission to NWTC. Students who do not meet admission requirements will be sent a letter outlining available options. All accepted students will be placed on a probationary status for ten NWTC school days, beginning with the first day of attendance. This phase will be used for curriculum-based assessment and to determine the appropriateness of placement. Students will automatically be granted full standing after the probationary period, unless notified of continued probationary status or withdrawal.

Priority placement will be given to juniors first, sophomores second, and seniors third. If the number of qualified applicants exceeds the number of students who can be placed, qualified students who applied by the preferred deadline will be randomly selected. Those who are not selected will be placed on a waiting list and randomly drawn as positions open prior to the start of the academic school year.

Ninth through twelfth grade students may enroll in the single block specialty courses. An application is not required.

Students with special needs, including students on Individualized Education Plans (IEP) and students on 504 plans, are encouraged to apply to the NWTC. For enrollment protocol and information about supports available at NWTC, please contact the Special Needs Coordinator.

Once a student on an IEP has been accepted at NWTC, an IEP meeting must be held to determine the appropriateness of technical program placement. If placement is appropriate, accommodations necessary for success in that program will be determined. The meeting must be held before the student begins classes at NWTC. Participants in the meeting will include the sending school special educator, NWTC Special Needs Coordinator, program instructor, parent/guardian, student, and others (as deemed necessary by the special educator and the NWTC Special Needs Coordinator.) If a student, parent/guardian, or sending school prefers, this meeting may be held before a student applies to the NWTC to discuss the range of programs and services the NWTC can provide.

If you have questions about these procedures, please feel free to contact either:

Susan Bosland
Jennifer Champagne

School Counseling Coordinator
Special Needs Coordinator

802-527-6512
802-527-1056

sbosland@maplerun.org
jchampagne@maplerun.org

AUTOMOTIVE TECHNOLOGY

Automotive Technology is designed to provide training and experience in the principles of automotive diagnosis and repair. Areas of study include automatic transmission/transaxle, manual drive train and axles, steering and suspension, brakes, electrical systems and electronics, heating and air conditioning, and engine performance. Advanced students use cutting edge technology and equipment to diagnose problems with starting and charging systems, ignition and fuel systems, and computerized engine control systems. This program combines in-depth theory with extensive hands-on training in our well-equipped National Automotive Technician Education Foundation Certified auto lab. Students will learn basic and advanced technical skills and essential worker traits to secure and retain employment in automotive and other related fields.

The Automotive Technology program has articulation agreements with Central Maine Community College, Lake Region State College, Ohio Technical College, Universal Technical Institute and University of Northeastern Ohio.

Automotive Technology I

This class is an option for students in grades 10 through 12. Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- Advancement toward grade-appropriate proficiency in English Language Arts and entry level Algebra

Automotive Technology II & III*

This class is an option for all students who have participated in and met Automotive Technology I proficiencies.

*Students will be enrolled with instructor permission in Cooperative Education / Work Based Learning.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Science (.5 credit per year)	Air Conditioning Certification Lift it Right Program NATEF Automotive Service Excellence Safety, Pollution & Prevention Training Snap-on Electrical Multimeter Certification State Inspection License Valvoline Vehicle Maintenance Certification Vermont General Service Technician	<u>Central Maine Community College</u> Electrical (2 credits) Engine Performance (2 credits) Brakes I (3 credits) Suspension and Alignment (3 credits)	SkillsUSA

Instructor:

Adam Vincelette
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Colin Capsey, Lab Supervisor
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BUILDING TRADES

Does working in the construction field interest you? How about working as a plumber, mason, or an electrician? In Building Trades, you can learn to utilize all these trades and more. The in-depth training you receive includes hanging doors, applying sheetrock, finishing floors, and the basics of framing and finishing a structure.

Building Trades I / Geometry in Construction

Geometry in Construction is an alternative approach to learning Geometry that is available as an option for students. This class is an option for students in grades 11 and 12. This team taught (Geometry / Building Trades course will integrate Bellows Free Academy's Geometry curriculum with Northwest Technical Center's Building Trades curriculum. The course will provide a direct application of Geometry concepts in the construction field. It is our goal to have student make connections between both curriculums. The course is recommended for students interested in pre engineering, architecture, construction management, interior design, landscape architecture, construction trades, and surveying. Potential students need minimal or no previous construction experience. Students will be exposed to practical skills in building and carpentry trades by constructing a wooden structure. Possible projects include sheds, small homes, and smaller scale structures. Math concepts include use of coordinate geometry in the study of area, perimeter, volume, transformations, congruence, Pythagorean theorem, similar figures, trigonometry, quadrilateral properties, circle properties, logic, and functions.

Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- Advancement toward grade-appropriate proficiency in entry level Algebra.

Building Trades II & III

This class is an option for all students who have participated in and met Building Trades I proficiencies. Apprenticeships in plumbing and electrical are also a part of this program. Students in Building Trades spend time off campus at actual job sites working with experts in their field.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Geometry (1 integrated/transcripted credit first year) Math (.5 credit second year)	Associated General contractors Certification CPR/AED, First Aid Hlift Training Certification Lead Containment National Center for Construction Education and Research Certification OSHA 10 hour Safety Course		SkillsUSA

Instructors:

Ross Lavoie
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Jonathan Branon, Lab Supervisor
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Mark Capsey
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COSMETOLOGY

Welcome to the world of Cosmetology! In the Cosmetology program, students will learn introductory practical skills which include haircutting, braiding, coloring, highlighting, and various hairstyling techniques. Theory academic work will cover topics such as Cosmetology terminology, infection control, salon business, professional image, and positive attitude.

There are many career possibilities in this profession, including Cosmetologist, Barbering, Nail Artist, Platform Artist, Product Sales Representative, Spa/Salon owner, among many more!

Completing the Cosmetology program provides students with hands on experiences and academic knowledge that will support their college education for licensure.

The opportunities will become endless in this ever-changing career!

Cosmetology I

This class is an option for students in grades 10, 11 and 12. Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- Advancement toward grade-appropriate proficiency in English Language Arts

Cosmetology II

This class is an option for all students who have participated in and met Cosmetology I proficiencies.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Science (.5 credit per year)	Barbicide Bloodborne Pathogens S/P2 (Safety, Pollution, Prevention)		SkillsUSA

Instructor:

Ashley Duncan-Aubin
Tel: (802) 527-6408
Email: aduncan@maplerun.org

CULINARY ARTS

The Culinary Arts program at Northwest Technical Center works in all areas of foodservice and restaurant management. Students gain knowledge and workplace readiness skills for general studies of industry practices with multiple opportunities afforded to them through their experience and time here. Students also operate *The Hideaway*, a student driven restaurant with a focus on contemporary and classic cuisine. Student skills are fostered and honed for work place readiness and/or post-secondary transition.

Culinary Arts I

This course is open to all 10th, 11th and 12th grade students interested in a career in culinary arts or a related hospitality field. In addition to focusing on culinary fundamentals, students will receive instruction in personal and professional development.

Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- Advancement toward grade-appropriate proficiency in English Language Arts

Culinary Arts II & III

This course offers continued exposure and hands-on learning in multiple areas of the food service industry including a la carte cooking, career and college planning, supervision and management and event planning. In addition, students will receive continued guidance in personal and professional development in preparation for post-secondary training in culinary arts, baking and pastry, restaurant management, or for entry level positions in the food service industry.

This class is an option for all students who have participated in and met Culinary Arts I proficiencies.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Math (.5 credit per year)	ServSafe Manager Certification	New England Culinary Institute Science Connection (3 credits) French Classic Cuisine (3 credits)	DECA SkillsUSA

Instructor:

Adam Monette
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Colby Ouellette, Lab Supervisor
Tel: (802) 527-6504
Email: couellette@maplerun.org

DIGITAL MEDIA STUDIES

Digital Media Studies (DMS) is for a creative person who also likes technology. The DMS Program focuses on communication in a digital world with an emphasis on artistic and electronic design. Students develop skills in digital photography, videography, audio production, and graphic design. In addition, students will explore careers in the growing field of digital media. Adobe CC, Final Cut Pro, and Code Academy are among the applications that will be utilized in this program.

Digital Media Studies I

This class is an option for students in grades 10, 11 and 12. Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- Advancement toward grade-appropriate proficiency in English Language Arts

Digital Media Studies II & III

This class is an option for all students who have participated in and met Digital Media Studies I proficiencies. This course expands on concepts learned in the first year and provides students with a "portfolio semester" where they can focus on concepts and projects that peak their interest.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Art (.5 credit per year)	Adobe Certified Associate in Photoshop Adobe Certified Associate in Premiere	<u>Community College of VT</u> Digital Photography (3 credits) Intro to Adobe Creative Cloud (3 credits) Introduction to Film (3 credits)	SkillsUSA

Instructor:

Anthony Sorrentino
Tel: (802) 527-6471
Email: asorrentino@maplerun.org

ENGINEERING TECHNOLOGIES

Engineering Technologies is a college-prep program for students interested in pursuing a career in one of many high paying engineering fields. Engineering Technologies students also have many other STEM related opportunities while enrolled including regional engineering competitions State/National Competitions like SkillsUSA, where recent Engineering Technologies students have earned twelve first place State and several top ten National awards in Computer Maintenance and Mathematics. Engineering careers are among the fastest growing and some of the highest paying careers in the job market today. This college preparatory program creates pathways to help student pursue careers in technology, engineering, computer hardware, software and networking, architecture, robotics or other STEM (Science, Technology, Engineering and Mathematics) related fields.

This two-year program rotates between electrical and mechanical engineering with each facet covered over the course of a year.

Engineering Technologies A/B

This class is an option for students in grades 10, 11 and 12. Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- Advancement toward grade appropriate proficiency in Algebra and Geometry

The focus will be on Electrical Engineering in the 2020 – 2021 school year.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Science (.5 credit per year)	OSHA Career Safe and Safety Training Program	Central Maine Community College Intro to Lathes (2 credits)	SkillsUSA

Instructor:

Douglass Bell
Tel: (802) 527-6528
Email: dhell@maplerun.org

HUMAN SERVICES

Human Services students have a sincere interest in helping others. Through experience, community involvement, and classroom instruction, students will learn about working with preschoolers, school-aged children, people with special needs, and the elderly. These students are preparing for careers as teachers, counselors, social workers, child care providers, geriatric service providers and workers in the health care and mental health fields. The Human Services students are responsible for many of the activities at Northwest Technical Center’s preschool, "Curiosity Corners". Upon completion of this program, students will be prepared to either enter college or the workforce.

The Human Services program is a college prep level program, and students will need reading, writing and presentation skills to be successful. Students accepted into the program must be able to pass an Agency of Human Services background check to participate in work based learning at the Curiosity Corners preschool.

Human Services I

This class is an option for students in grades 11 and 12. Admittance is based upon a completed application that reflects the student’s success in the following three areas:

- Attendance
- Attitude and behavior
- Advancement toward grade-appropriate proficiency in English Language Arts.

Human Services II

This class is an option for all students who have participated in and met Human Services I proficiencies.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Social Studies (.5 credit per year) English (1 integrated/transcripted credit in 2 nd year)	Bloodborne Pathogens CPR/AED First Aid Paraeducator Certification SafeSchools Confidentialities SafeSchools Communications VT Mandated Reporter Training Youth Mental Health First Aid	<u>Community College of VT</u> Introduction to Human Services (3 credits) Communications in Early Childhood Education (3 credits)	SkillsUSA DECA

Instructors: Jennifer Konrad Tel: (802) 527-6507 Email: jkonrad@maplerun.org	Beth Richey (Curiosity Corners, Preschool Teacher) Tel: (802) 527-6499 Email: brichey@maplerun.org
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MEDICAL PROFESSIONS

Want to get a jumpstart on your future career earning up to nine college credits? This upper level program is designed for students interested in pursuing careers in medicine, nursing, physical therapy, radiologic imaging, laboratory technology, dental hygiene, veterinary medicine, sports medicine, or other healthcare disciplines. Students will explore the symptoms of disease and wellness that may occur in the human body during a person's life. These students will also have field placements in local medical facilities to help them apply their academic learning to real life situations. If you are looking for a career that focuses on people and enjoy science and medical technology, consider this program.

Medical Professions I

This class is an option for students in grades 11 and 12. Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- **Demonstrated grade-appropriate proficiency in Biology and Algebra I.**

Medical Professions II

This class is an option for all students who have participated in and met Medical Professions I proficiencies.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
Science (.5 credit per year) English (1 integrated/transcripted credit in 2 nd year)	Licensed Nurse Assistant (LNA) Certified Pharmacy Technician (CPhT) CPR/AED First Aid Bloodborne Pathogens Stop the Bleed	<u>Community College of VT</u> Human Biology (3 credits) Medical Terminology (3 credits) Intro to Health Care (3 credits)	SkillsUSA

Instructors:

Julie Faas, RN
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Timothy Hurteau, MSPT
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 thurteau@maplerun.org

PUBLIC SAFETY & FIRE SERVICES

This course is designed to meet the needs of students who are interested in becoming career or volunteer Fire Fighters, Emergency Medical Technicians, Paramedics, Fire Inspectors, Police Officers, Border Patrol Officers, etc. The program focuses on gaining hands-on training with an emphasis on ethical behavior and the importance of volunteerism.

Public Safety & Fire Services I

Are you interested in what happens and how to help at an Emergency Scene? What are the functions of Law Enforcement, Emergency Medical Services, and Fire Departments? These topics will be covered in the first year of our program, alongside our First Responder curriculum. A feature of this program will be the possibility for students to attend Co-op placements at local hospitals, fire departments, rescue squads, police departments, etc.

This class is an option for students in grades 10, 11 and 12. Admittance is based upon a completed application that reflects the student's success in the following three areas:

- Attendance
- Attitude and behavior
- **Concurrent enrollment in or advancement toward grade-appropriate proficiency in Biology**

Public Safety & Fire Services II

With a special focus on Fire Fighting, students will experience complete training and learn about equipment, fire behavior, how to search a building, fire control, etc. Students will also have continued exposure to our Public Safety curriculum. A feature of this program will be the possibility for students to attend Co-op placements at local hospitals, fire departments, rescue squads, police departments, etc.

This class is an option for all students who have participated in and met Public Safety & Fire Services I proficiencies.

Additional Program Information

Embedded Credit	Credential	Dual Enrollment	CTSO
<p>Science (.5 credit per year)</p> <p>English (1 integrated/transcribed credit in 2nd year)</p>	<p>CPR/AED (Red Cross) First Aid Firefighter I Emergency Medical Responder Bloodborne Pathogens Incident Command System 100 (FEMA), 200, 700 Highway Safety Wildland Fire Control Professional Rescuers Hazardous Materials Operations</p>		SkillsUSA

Instructor:

Michael Antoniak
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Work Based Learning

(Class 70944)

Work Based Learning, is a unique plan of education which integrates classroom study with planned and supervised work experience. This educational pattern allows students to acquire practical skills as well as to be exposed to the reality of the world of work beyond the school campus. These experiences enhance the self-awareness and potential direction of the students involved.

One of the great strengths of Work Based Learning is its flexibility. The basic concept of integrating work experience in an educational curriculum can be applied in many different ways.

The Northwest Technical Center's Work Based Learning Program has three main components:

Job Shadows	Usually a onetime observation of various occupations
Career Work Experience (CWE)	Program specific work experiences, usually during Northwest Technical Center class time
Cooperative Technical Education (CTE)	Paid, supervised work, with training plan in program specific employment, available to students who have already completed program curriculum

Work Based Learning blends the philosophy of the hiring institution with the needs of the students. It is dependent upon the cooperation between educational institutions and employers to form a total educational program. The interrelated experience and study components are carefully planned and supervised to produce optimum educational results. Through a balanced educational method which combines classroom theory with career-related work experience, Work Based Learning offers numerous advantages to the student and to employers.

It is the goal of Work Based Learning to prepare every student for entry level employment and/or post-secondary training or education.

Please Note: Participation in Work Based Learning is based on your Program Instructor's recommendation.

Work Based Learning Coordinator:

Robert Thayer
Tel: (802) 527-6516
Email: rthayer@maplerun.org

ACADEMIC SKILLS CENTER (ASC)

The Academic Skills Center is available to all students at the Northwest Technical Center. Students are welcome to seek information, utilize computers, have a quiet space to work, and receive academic help and support.

The instructor provides academic help, guidance, counseling, and employability skills training. The instructor conducts assessments for all Northwest Technical Center students. These assessments include the Accuplacer and other state assessments as required. Special emphasis is placed on helping students develop skills in communication, problem solving, work ethic, and team building.

The ASC is staffed by a certified special needs teacher. The teacher monitors and supports all Special Education and Section 504 students.

ASC helps all students in the Northwest Technical Center to achieve their educational potential.

EMPLOYABILITY

The Northwest Technical Center educates all students in filling out job applications, contacting the local job service, and assisting them in attaining employment upon graduation through our Work Based Learning Program. We help all students develop employability skills through development of resumes, cover letters, applications, mock interview skills and portfolios.

EMBEDDED/INTEGRATED/TRANSCRIPTED CREDIT

At the completion of each year in a Tech Center program, students may earn $\frac{1}{2}$ embedded credit in Math, Science or Art. See individual course descriptions for specifics on which credit is offered in each program. A student must be in the class all year to be eligible to receive embedded credit in their Tech Center program.

Junior/Senior English Seminar is an English class offered to Northwest Technical Center students enrolled in certain Northwest Technical Center programs. This college prep class blends English and the specific Northwest Technical Center course. Students take this course during their Northwest Technical Center class, and it is available ONLY to juniors and seniors. One credit of Junior/Senior English Seminar can fulfill Bellows Free Academy graduation requirements for English. Junior students may not take two English classes to replace their senior English class. However, seniors who are in need of an additional English credit may take two English classes at the same time.