

Career and Technical Education Programs

Grades 11 and 12

GENERAL INFORMATION

Students enrolled in Occupational courses work in a classroom laboratory for half a day and pursue academic courses at their home high school during the remainder of the school day. The BOCES Vocational Center provides training in specific occupational fields, closely following industrial and business practices. Students may apply for admission in the spring of their sophomore year for the two-year programs, and in a few cases during the junior year for the one-year programs.

Students must participate in the orientation process prior to making a final decision. It should be noted that in order to complete the program and complete graduation requirements in four years, students must be full-fledged juniors prior to attending the Center. Students shall receive 3 units of credit during the first year and 3 units of credit for the second year. A list of courses follows:

ANIMAL SCIENCE I & II (9234/9235)

Animal Science is a two-year program designed to explore the diverse field of animal science. This program is for students who have a desire to work with large or small animals. Students will recognize the important roles animals play in society from individual ownership to scientific research with far reaching implications. This technical course teaches specialized and advanced skills in areas such as veterinary assisting, care and handling of animals in a laboratory or veterinary setting, dog grooming and kennel/pet shop management. It provides students with the opportunity to care for and be exposed to a wide variety of animals within the classroom and community setting. This science-based program will teach skills in areas such as animal handling, anatomy and physiology, grooming, pet first aid, health and disease, clinical practices, veterinary terminology, and safety and sanitation. Students will operate a grooming parlor that is used as a learning model for the handling and caretaking of animals. They will use the tools of the grade, including diagnostic and grooming equipment. Upon successful completion of this program, students may receive college credits pending established procedures.

ANIMATION & VIDEO PRODUCTION (9805/9806) – (TECHNOLOGY ACADEMY)

This program is comprised of two one-year courses designed to prepare students for future education and careers in video production and animation. Our college-level media production facilities include digital video and audio equipment, a green screen studio space, and Macintosh workstations. Students are trained to use industry-standard software, including Adobe Flash, Apple Final Cut Pro, Motion, Cheetah3D, Audacity, Adobe Photoshop and Adobe Illustrator. This program is open to juniors and seniors in both the morning and afternoon sessions. The courses are non-consecutive, so students may take one or both courses, in either order. Students enrolling in the Digital Media program should possess a solid English and Math background (art and media classes are beneficial) and be on track for a Regents Diploma.

AUTO BODY I & II (9260/9261)

Auto Body is for students who want to learn to repair, refinish and paint automobile bodies, fenders and frames. Students will also learn about body trim, hardware, door locks, remote controls and glass window regulators. NATEF, I-CAR and ASE certified. Juniors and Seniors may take this program.

AUTO TECHNOLOGY I & II (9262/9263)

Auto Technology is a two-year course open to all students in their junior or senior year. The program is designed to help prepare the student who wants to enter the mechanics field in a repair shop, service department, at a dealership, a service station or a fleet maintenance facility. This program is NATEF and AYES certified.

BUILDING MAINTENANCE & MANAGEMENT (CONSTRUCTION SYSTEMS) (9290/9291)

The Building Maintenance & Management Program is designed to prepare students to enter directly into the trades or continue their education at a post-secondary level. Students build small projects and also work as a team to build a full-scale project in the career center. Students will also use their skills to work on service projects in the local community.

CERTIFIED PERSONAL TRAINER I & II (9380/9381)

The certified Personal Trainer program is a two year program. This course is designed for the individual seeking competency in health, fitness and exercise instruction. Students will perform fundamental health and fitness assessments and learn to design and implement fitness programs for the healthy population. During the course students are provided with the most relevant scientific information regarding the assessment, design and implementation of safe, effective and efficient personal exercise instruction.

Upon completion of this program, students will be prepared to take the American Council on Exercise Certification Examination (ACE).

COMPUTER TECHNOLOGY (9350) – (TECHNOLOGY ACADEMY)

This program is open to all students in their junior or senior year. Students will learn about all aspects of computer technology, including standard software packages, operating systems and hardware architecture. Upon completion of this program, students are eligible for Skills USA certification, comp TIA A+ certification and Bryant and Stratton College credits.

CONSERVATION I & II (9348/9349)

This program is designed to give students a better understanding of our natural resources and the reasoning for preserving them with activity based learning experiences.

COSMETOLOGY I & II (9360/9361)

This is a two year program where students learn the latest techniques and apply them in our full service salon which is open to the public. After students have successfully completed 1,000 hours of cosmetology they are prepared to apply for licensing through New York State.

CULINARY ARTS I & II (9451/9452)

Students in this program will be exposed to the variety of careers available within the food service and food preparation field. By actual participation, students will become familiar with the workings of a modern kitchen, while preparing foods of various types. This training will prepare them for future employment in both preparation and serving. This program will also qualify students for acceptance at post-secondary schools specializing in training necessary to become master chefs, restaurant managers, owners, or instructors of culinary arts trades. The program is open to all high school juniors and seniors.

DIESEL TECHNOLOGY/HEAVY EQUIPMENT (9378/9379)

Diesel Technology/Heavy Equipment is a two year program open to all high school juniors and seniors. Students who have found an interest in working with machines in the construction, agriculture, trucking and bus industry, lawn and garden industry, small engine automotive, welding, industrial machine maintenance and armed forces should consider this program. Students will be working on trucks (pickups and semis), farm tractors, forklifts, backhoes, bulldozers, lawn mowers and small engines. Students will also work in groups for engine tear down, overhaul and failure analysis.

EARLY CHILDHOOD EDUCATION I & II (9310/9311)

The Early Childhood Education program has several options open to all students in their junior and senior years. Students spend a portion of their time teaching preschool children and gain hands-on experiences working in the on-site preschool program. Students completing this program will gain experience working with children 2 to 5 years of age. The curriculum includes several professional development opportunities such as Disabilities Awareness training; Identification and Reporting of Child Abuse for Mandated Reporters; Adult, Infant & Child CPR and Standard First Aid through American Red Cross; and SAVE (School Against Violence in Education) Certification.

ELECTRICITY/ELECTRONICS I & II (9404/9405)

This is a two-year program which allows students the opportunity to attain entry level job skills and/or prepare for additional in-depth training in the Electricity/Electronics field. Students will study Electronics Technology with many analog and digital projects to build. Residential house wiring and industrial motor control along with training on PLC's are part of the second year. Classes may wire a modular home or work on projects outside of the Career and Tech Ed Center. Students will be given job-seeking skills and assisted in finding jobs near the end of the second year.

EMERGENCY MEDICAL SERVICES (EMS) (9420/9421)

This is a one or a two year program that focuses on the skills required for certification and advancement in the field of Emergency Health Care/Pre-Hospital Care. Each year can be taken as a stand-alone program. Multiple certifications are offered in this program, with the major ones leading to National Safety Council Certified First Responder (CFR) and New York State Emergency Medical Technician - Basic (EMT-B).

FASHION DESIGN/INTERIOR DECORATING (9365/9366)

This is a one or two year program designed to prepare students for education or careers in fashion design and interior decorating. Juniors and seniors who have a creative artistic vision are welcome to enter the program. Students will use state-of-the-art computer software, sewing machines, and equipment related to the fashion and interior design industry.

GRAPHIC COMMUNICATIONS I & II (9474/9475)

This program is divided into two one-year disciplines to prepare students for a career or college. We offer a one year program in Graphic Communications and another in Web Design.

HEALTH OCCUPATIONS TECHNICIAN I & II (9406/9407)

The medical field is in great demand for quality health care providers. The Health Occupations Technician Program addresses this demand in a two year program that focuses on the art and science of providing patient care with real life experience in a variety of health care settings. Emphasis is placed on providing safe, reliable, ethical and respectful patient care. While students are working towards the goal of employment as a health-care provider, they are also able to earn credits in the following courses: Health Occupation Technician (HOT), Technical Math, Technical Communications, Technical Science and Health.

This is a very active program with classroom, lab and clinical components. Each of the components is designed to prepare students to care for diverse individuals of all ages, from birth to the end stages of life. Students will experience all aspects of the healthcare field from illness and injury to rehabilitation. We utilize many different clinical settings for students to gain real life experience. Our students gain first-hand clinical experience in local hospitals, nursing homes, rehabilitation facilities, physical therapy departments, occupational therapy departments, laboratories, pharmacies, operating rooms, pediatric facilities, speech therapy departments, disability agencies and nutritional care.

Upon successful completion of the HOT program students are eligible to take the New York State Nursing Assistant Certification exam and enter into the workforce. In addition, HOT graduates also develop an expanded foundation on which to make informed decisions regarding their future choices in health care employment and potential future education in the health care professions.

HEATING/VENTILATION/AIR CONDITIONING AND REFRIGERATION I & II (9238/9239)

Heating/Ventilation/Air Conditioning and Refrigeration is a two year program designed to provide students with employable skills in the service and installation of residential and commercial heating, air conditioning and refrigeration units. It is a comprehensive technical and hands-on training program that covers all critical aspects of the HVAC/R field. Students will understand refrigeration, cooling systems and heating units. Students will learn to install, maintain, troubleshoot and repair both residential and commercial systems in a fully operational HVAC/R lab. NOCTI certification is available to all students.

PROJECT BASED ENGINEERING I & II (9382/9383) – (PRECISION MACHINE TECHNOLOGY)

Students will be engaged in team based projects while still being responsible for directing their own curriculum concentration, projects and areas of exploration within the engineering sciences. Collaborative teaching strategies and extensive active learning techniques make the learning process an active one. Our program has been recognized as leading edge with over 40 NYS and 11 national champions who have graduated with this program in Automated Manufacturing and Precision Machine Technology.

SECURITY & LAW ENFORCEMENT I & II (9815/9816)

Students interact with many guest speakers from the criminal justice field and visit numerous agencies to learn about this career field. This program will orient the student to the careers associated with Security and Law Enforcement and introduce the student to the criminal justice system (police, courts, corrections).

WEB DEVELOPMENT AND GAME PROGRAMMING (9804/9803) – (TECHNOLOGY ACADEMY)

NCTEC only. This program is geared toward students interested in computer programming, Web technologies and game design. Students in this program will develop skills in coding, interactive design, game theory and development, and mobile app creation using industry-standard programming languages and developmental tools. The program consists of one year of Web Development and one year of Game Programming.

WELDING AND FABRICATION, I & II (9813/9814)

NOCTI and AWS certification available to all students. The Welding Program is designed to develop skills in all areas of welding and metal fabrication, but most specifically those areas where there is the greatest employment potential. Students experience and practice with oxyacetylene, electric arc (SMAW), MIG and TIG welding which enables them to cut and fabricate steel, aluminum and stainless steel. They learn the various processes from setup to final inspection as they work on customer projects.

This program is set up with a structured step-by-step order for moving through the various welding methods and processes. Students will be required to complete practice pieces representing various metal joints and in different positions. Fabrication will take place during the final half of the senior year. Students can expect to be working and involved in the welding process for a majority of their class time.

FREQUENTLY ASKED QUESTIONS

Q: Who is eligible to attend a career and technical education program?

A: Any and all students from Orleans/Niagara BOCES' 13 participating districts may enroll in the programs.

Q: I would like to enroll in one of your career and technical education programs. What do I do?

A: To enroll in a career and technical education program, high school students can talk to their school counselor.

Q: How are these programs different from traditional high school?

A. Hands-on learning is a hallmark of the career and technical school experience. While academics are part of the program, and students learn via traditional lecture, reading and writing projects, the majority of their time is spent actually experiencing their career field.

Q: How long are the programs?

A. Most career and technical school students attend for a half school day, approximately two and a half hours.

Q: I am being home schooled and would like to attend a career and technical education program. Can I do that?

A. We do accept students that are being home schooled. Please be aware though that your school district will not pick up tuition if you are not attending there. The student and their family will be responsible for paying it.

Q: What is a Career and Technical Endorsement?

A. Students who successfully complete an approved career and technical education program and successfully complete all requirements earn

a technical endorsement seal on their high school diploma.

- **Successful completion of a three-part technical assessment (written, demonstration, project components).**
- **Have 22 credits completed from high school.**
- **Pass five Regents exams or approved alternatives.**
- **Completion of work based learning experiences as provided by the approved program.**
- **Completion of a work-skills employability profile.**

INDEPENDENT STUDY

A student who desires to pursue either a course within our Program of Studies which does not fit the student's schedule, a course that may not be offered in the school's regular curriculum, or a particular topic in depth, should seek out a sponsor teacher. Once the feasibility of a request to do an Independent Study is established, a proposal is written describing the project, including consultation times with the teacher, and the facilities and materials to be used. When a student signs a contract, he/she assumes responsibility for his/her own learning. Credit may be granted upon successful completion of the project as determined by the sponsoring teacher. Independent Study projects are subject to approval of the parent, the guidance counselor, and the Principal, as well as the sponsoring teacher.

Application forms are available in the Guidance Office.

LANCER LEARNING CENTER

The Lancer Learning Center exists to provide students with support during the school day with academics and skills. Open all 9 periods, it is staffed by teachers, teachers in training and peer tutors. Services offered include credit recovery (via Apex), homework help, test preparation, and review and reinforcement of content. Students can be assigned to the LLC or drop in for extra help as needed. Parents and teachers may refer students throughout the school year.

LIBRARY MEDIA CENTER

The Library Media Center is located on the second floor of the high school. All students, faculty, and staff are encouraged to make use of the library's resources and services. The library is a place for students to conduct research, check out a book, study quietly, read, or use a computer for school-related assignments. The library is a member of the Orleans-Niagara School Library System, and inter-library loan is available for materials not owned. The library hours are Monday - Thursday from 7:40 AM – 3:10 PM and Friday from 8:40 AM – 2:40 PM.

RESOURCES: The library has a variety of print and electronic resources. The library catalog is available at <http://library.lew-port.com/common/welcome.jsp?site=103> or by clicking on the "OPAC" link on the library's website. The library provides access to several databases and e-books for students to conduct research. These resources are available under "databases and e-books" on the "Library" link of the High School's website. The databases are accessible from home as well; there is a link for remote passwords at the top of the database page on the library's website.

INSTRUCTION: All ninth grade students receive library orientation as part of their freshman year. In addition, the Library Media Specialist collaborates with the teachers to design projects and schedule classes into the library for instruction as needed. Students can ask the Library Media Specialist for individual help with research projects by coming to the library during their study hall or after school.

ACCEPTABLE USE POLICY: All 9th graders, as well as any new students to the district, are required to complete an Acceptable Use Policy. This form must be signed by both the student and a parent/guardian in order for a student to use any school computers. All completed forms should be turned in to the library.

SPECIAL EDUCATION SERVICES

CONSULTANT TEACHER SERVICES PROGRAM

The Consultant Teacher Services Program provides assistance for students in grades 9 through 12. Special Education teachers service students who have been identified by the Committee on Special Education (CSE) as needing specialized support. This support can take the form of either assistance provided directly in their academic classes, in Study Skills Lab, or in both. The goal is for each student to successfully complete both Common Core academic coursework and required Regents Examinations, resulting in graduation with a Regents Diploma.

Many students receive academic support by being scheduled into a grade-level Study Skills Lab. Study skills and test-taking skills are also emphasized in this class. Each student's academic progress is reviewed yearly and services are revised as needed by the CSE.

LIFE SKILLS SELF-CONTAINED CLASSROOM

The Life Skills Program offers a curriculum that allows students to gain valuable skills needed to work towards achievement of a Skills and Achievement Commencement Credential (SAAC) or receive a Career Development and Occupational Studies (CDOS) credential before exiting high school. Students receive instruction that includes functional academics, community and work-based learning and they also have the option of participating in BOCES Vocationally Individual Paced programs (VIP) at the Career and Technical Center.

INDEPENDENT STUDY COURSE IN SPECIAL EDUCATION

Students taking this course are assigned to a peer in the high school with developmental disabilities. “Peer Buddies” will assist students in the classroom with functional tasks such as cooking or academic tasks in the classroom setting. Peer buddies may also be working alongside the student with special needs on school assigned jobs throughout the building. Building job sites may include the cafeteria, main office, or library. Peers may also occasionally join their buddy on a community work experience when prior approval is arranged and permission forms are completed.

Students who are interested in careers in education or health related fields would benefit from this experience, and their high school transcript will denote this independent study credit for prospective colleges. Students will gain an understanding of students with exceptionalities through interactions with students and assigned written projects and research on individuals with developmental disabilities.

Course credit is available as follows:

- 1 credit for daily full year involvement
- ½ credit for every other day full year involvement
- ½ credit for every day involvement for one semester

AFTER SCHOOL ASSISTANCE PROGRAM

The After School Assistance Program (ASAP) is a service available to the students of Lewiston-Porter High School from 3:10 pm until 3:45 pm. The purpose of this program is to provide extra support for students who are experiencing difficulty in their coursework.

NATIONAL HONOR SOCIETY

Membership in the National Honor Society is based upon excellence in four areas: scholarship, leadership, service and character. A student must have a cumulative weighted grade point average of at least 95% to be eligible for membership. Candidates must complete an eligibility packet distributed in the winter of their junior or senior year in order to be considered for membership. Qualifications are then reviewed by a faculty selection committee to see if the criteria have been met. Induction ceremonies are held in April.