

The Northwest Career & Technical Academy is an extension of your high school where innovative educational opportunities are available. Programs offered will provide you with the skills, knowledge, and professional leadership training necessary for the workplace or continuing education through an apprenticeship, community college, or university. The Academy is tuition free for high school students; however some programs may have industry related costs/lab fees. Please see the Academy Catalog for full course descriptions, course requirements, high school credit equivalencies, and college credits. The Academy's website located at [nwtech.k12.wa.us](http://nwtech.k12.wa.us).

**Aerospace Manufacturing** prepares students for immediate employment in the aerospace and manufacturing industries. Students will fabricate, assemble, and repair structures using basic and advanced composite materials including carbon fiber. Students will also learn blueprint reading, CNC operation, and metal riveting using numerous pneumatic tools, and discover the dynamics behind flight, flight controls, and flight surfaces in all kinds of aircraft. High School Credits Earned: 1.0 Technical Math, 1.0 Science and 1.0 Occupational Education.



**Animal Care and Handling** prepares students for entry level employment in a variety of animal related occupations, such as a laboratory animal caretaker, veterinary kennel attendant, pet store clerk, and grooming assistant. This course also prepares students for entry into a



Veterinary Assistant program. The content includes but is not limited to:

animal-related career exploration, responsible animal care, work environment sanitation and safety, small mammal, reptile, avian and fish biology and care. High School Credits Earned: 1.0 Technical English, 1.0 Science and 1.0 Occupational Ed.

**Applied Medical Sciences** introduces students to the medical field, with an emphasis on knowledge and skills applicable to many medical occupations. Students explore medical careers in areas of interest, as well as in targeted high demand fields for future jobs. Students completing all course work and participating in a 50-hour clinical internship, will be



eligible to become WA State Nursing Assistant Certified (NAC). Additionally, students will be able to test for the HIPAA certification. High School Credits Earned: 0.5 Health, 0.5 Technical English, 1.0 Science/Lab Science and 1.0 Occupational Education.

**Automotive Services** provides the skills and the knowledge required for job entry in the automotive trade at the apprenticeship level or additional training in a career-technical institute. The course will consist of shop safety, shop organization and operation, theory and repair of engines, electrical systems, brakes, fuel systems, cooling systems, power trains, and suspension steering alignment.



The students will make repairs on the automobile in these areas at the trade accepted standard. The students can supply their own projects or will be furnished a project to work on. High School Credits Earned: 1.0 Technical Math, 1.0 Science and 1.0 Occupational Education.

**Construction – Residential Carpentry** prepares students for careers in the construction industry. Students will study a nationally recognized construction trade curriculum and participate in hands-on building activities. Students will learn about work-site safety, construction-based applied math, safe use of hand and power tools, blueprint reading, communication skills, employability skills, material handling and framing skills. The program helps students explore a variety of construction-related career opportunities, develops appropriate work readiness skills and prepares them to enter construction-related apprenticeships, post-secondary education programs or entry-level



jobs. With successful completion of the program, students will receive a national, industry-recognized certificate of training completion. High School Credits Earned: 1.0 Technical Math, 1.0 Technical English and 1.0 Occupational Education

**Construction – Skilled Trades:** Electrical, Plumbing, Finish Carpentry and Contracting develops the entry-level skills needed in residential electrical wiring, plumbing and finish carpentry including cabinet installation. Students will also learn project planning, cost estimation, and project management for residential sub-contracting. This year-long course is designed to accommodate quarter-entry points. Each quarter will focus on one content area as a stand-alone unit of instruction. Workplace safety, tool usage and job-readiness skills will be overarching themes throughout each unit. Post high school training opportunities or entry-level employment in residential construction or facility maintenance careers in residential settings. High School Credits Earned: 1.0 Technical Math, 1.0 Technical English and 1.0 Occupational Education.

**Criminal Justice: Law Enforcement Focus** provides an overview of the criminal justice system and the careers available in this growing employment field. Students will investigate the roles of local and state law enforcement agencies, corrections, and other supporting careers. CPR training, hazardous materials awareness, and the National Incident Management system are also included in this program. High School Credits Earned: 0.5 Civics, 0.5 Social Studies Elective, 1.0 Technical English and 1.0 Occupational Education.



**Criminal Justice: Legal Services Focus** provides an overview of the legal system and the careers available in legal services

professions. Students will learn about the criminal justice legal system as it works in real-world settings from law enforcement through courts and correction. Field trips and class speakers will provide students first-hand experiences seeing the legal system in action. Career pathways include lawyer, para-legal, court staff, correctional staff and law enforcement. High School Credits Earned: 0.5 Civics, 0.5 Social Studies Elective, 1.0 Technical English and 1.0 Occupational Education.

**Culinary Arts** combines culinary curriculum with on the job training in a commercial setting open to the public. Students deal with customers, production deadlines, and actual job functions. The students receive instruction in Kitchen Procedures, Deli and Barista Operations, Baking/Food Productions, Banquet and Catering service, and Storeroom Management. Students leave prepared for employment and/or culinary college. High School Credits Earned: 0.5 Technical English, 0.5 Fine Arts, 1.0 Technical Math and 1.0 Occupational Education.



**Dental Assisting** -The Dental program prepares students to become Registered Dental Assistants through the State of Washington. Each student will experience hands-on learning offering valuable preparation for future placement in the exciting and demanding field of dental technology. Areas of study



include: Occupational Industrial Safety/Hygiene, Oral Anatomy, Microbiology, Dental Terminology, Radiography, taking Bite-wing x-rays, Basic Chair-side Skills, Dental Equipment and Instrument Identification and Maintenance, as well as Sterilization and Disinfection and Head and Neck Anatomy. High School Credits Earned: 0.5 Technical English, 0.5 Health, 1.0 Science/Lab Science and 1.0 Occupational Education.

**Fire Science & EMS** prepares students with the skills necessary to become a firefighter and EMT, and to be an integral part of a Community Emergency Response Team (CERT). Taught by fire-fighting professionals, students will participate in firefighter training; fire prevention, inspection and investigation; alarm systems; dispatching, and EMS. Students will learn in various fire training stations in

the area and experience all this profession has to offer. High School Credits Earned: 0.5 Health, 1.0 Physical Education, .5 Technical English and 1.0 Occupational Education.



**Marine (Boat & Yacht) Services** is a hands-on new curriculum focused on the skills necessary for a successful future in the world of Maritime employment. Students will learn about preservation and maintenance of materials found on boats, marine and marina operations, customer service, boat handling and navigation, gelcoat and fiberglass repair, and an introduction to marine propulsion and engines. On the water and other field studies will be included in this course. Students wishing to continue in the marine field will be able to successfully transition into a variety of post-secondary options. High School Credits Earned: 1.0 Technical Math, 1.0 Science and 1.0 Occupational Education.



**Veterinary Assisting** is designed for Students interested in professions working with and caring for animals. Through hands-on learning and challenging academic coursework, students will develop the skills and knowledge necessary to obtain entry-level positions in a variety of animal care facilities, including veterinary hospitals, grooming shops, animal shelters, and boarding facilities. High School Credits Earned: 0.5 Technical Math, 0.5 Technical English and 1.0 Science/Lab.



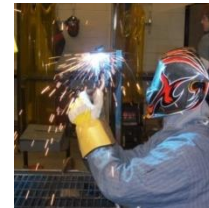
**Video Game Development** explores the many facets of the video game development life-cycle: from asset creation to game design to coding. Students will learn to code in an industry-standard programming language, create their own 2D & 3D graphics, explore game design as part of a project team and combine these elements to create games using a professional game engine. With crossover



credit options available, this could be the first step on the path to a career in computer science. High School Credits Earned: 1.0 Linear Algebra, 1.0 Computer Graphics and 1.0 Computer Programming.

Innovative students can return for a second year of self-driven studies, earning more credits for applying their skills in advanced software development areas. Students must have successfully completed the first year of study and shown evidence of being an independent worker. Second Year Students earn 3.0 Computer Science credits.

**Welding** is an industry-based shop environment designed for the student who would like to develop a deeper understanding of metalworking as a foundation for continuing education or being in a job-ready market. Students are trained in the basic skills of oxy-acetylene welding, and cutting, shielded metal arc welding, gas metal and flux cored arc welding, gas



tungsten arc welding, many other areas. Additionally, this program trains students in blueprint reading, math, layout and fit-up, and fabrication of a wide variety of projects. High School Credits Earned: 0.5 Technical English, 0.5 Fine Arts, 1.0 Technical Math and 1.0 Occupational Education

More courses to come in February 2018! Keep an eye out for courses such as—

- Biotechnology & Research
- Natural Resources
- Early Childhood Education
- Sustainable Design
- Medical Administrative Assistant

Please check the website for current information.  
[www.nwtech.k12.wa.us](http://www.nwtech.k12.wa.us)

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