

WANIC SKILL CENTER COURSE CATALOG

2021-22



**Washington Network
for Innovative Careers**
Northeast King County Skill Center

WANIC Skill Center Programs

WANIC Skill Center offers high quality tuition-free skill center classes for high school juniors and seniors. These year-long, advanced-level programs are based on rigorous academic and industry standards preparing students for career and college readiness. WANIC programs offer dual credit opportunities (high school and college credit) and/or lead to industry certifications. Programs are designed in three period blocks which allows extended learning time and authentic hands-on lab experience.

Skill Center classes are offered at many local high schools in our area, DigiPen Institute of Technology and Lake Washington Institute of Technology. All classes are offered during the regular school day, while some are also offered after the school day. Students attend their home high school for part of their day and attend WANIC Skill Center programs in a different location for the remainder of the day.

Program Availability subject to change. Class times will be listed in the Online Application.

wanic.org

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WANIC - Automotive Technology Year 1

Locations – Bellevue High School, Bothell High School, WANIC @ Lake Washington Institute of Technology

3.0 credits – grades 11, 12

Meets Occupational Education (2.0 credit) and Lab Science (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite - Application & Acceptance through wanic.org. Bothell HS requires site visit.

Course fee – Contact teacher for information. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). This STEM enriched course prepares individuals to engage in the specialized servicing and maintenance of all types of automobiles. Includes instruction in the diagnosis of malfunctions in, the adjustment or repair of, and/or properly replacing of parts in 3-4 of the 8 nationally recognized Automotive Service Excellence (ASE) sections. Leadership, Interpersonal, ASE supplemental tasks, and 21st Century Skills are embedded throughout this course along with a heavy correlation to science, physics and chemistry; cross-referenced to the Next Generation Science Standards. Students will be reading college level textbooks and practicing their technical writing skills.

Certification: This program is nationally ASE certified at the Auto Service Technician (AST) level but is taught to the Master Auto Service Tech (MAST) level, encompassing all of the AST, MLR and GST competencies: A-4 Suspension and Steering (180hrs. major), A-8 Engine Performance/Drivability (180hrs. major), A-7 Heating and Air Conditioning (90hrs. minor), A-2 Automatic Trans & Trans Axle (90hrs. minor).

Codes LWSD Course Code: CTZ901/902 and SCO931/932.
CIP: 470604. State Course Code 20104.

WANIC - Automotive Technology Year 2

Locations – Bellevue High School, Bothell High School

3.0 credits – grades 11, 12

Meets Occupational Education (2.0 credit) and Lab Science (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Successful completion of Automotive Technology Year 1 and Application & Acceptance through wanic.org. Bothell HS requires site visit.

Course fee - Contact teacher for information. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). This STEM enriched course continues to prepare individuals to engage in the specialized servicing and maintenance of all types of automobiles. Includes instruction in the diagnosis of malfunctions in, the adjustment or repair of, and/or properly replacing of parts in 4 of the 8 nationally recognized ASE sections. Leadership, Interpersonal, ASE supplemental tasks, and 21st Century Skills are embedded throughout this course along with a heavy correlation to science, physics and chemistry; cross-referenced to the Next Generation Science Standards. Students will be reading college level textbooks and practicing their technical writing skills.

Certification: This program is nationally ASE certified at the Auto Service Technician (AST) level but is taught to the Master Auto Service Tech (MAST) level, encompassing all of the AST, MLR and GST competencies: A-5 Brakes (180hrs. major), A-6 Electrical/Electronics (180hrs. major), A-1 Engine Repair (90hrs. minor), A-3 Manual Drivetrain and Axles (90hrs. minor).

Codes LWSD Course Codes: CTZ905/906 and SCO935/936.
CIP: 470604. State Course Code: 20106



WANIC – Building Industry Technologies - Core Plus Construction

Location: Interlake High School

3.0 credits – grades 11, 12

Meets Occupational Education (1.0 credit), Science (1.0 credit) and 3rd Year Math (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite - Application & Acceptance through wanic.org.

Course fee – Contact teacher for information. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Work with industry experts who provide professional knowledge and first-hand experience. Utilize different materials and methods, fasteners and adhesives, learn to safely operate the various industry tools, and learn jobsite safety and OSHA requirements. Design and carry out hands-on skills in practices such as rigging, lifting and safely moving a load utilizing principles of mechanical advantage. Read, understand and interpret basic plan sets and engineering drawings. Apply academic concepts such as math and physics for a well-designed project, key concepts in plumbing and electrical, along with energy utilization and energy efficiencies. Learn about a variety of project management approaches. Feel prepared to find employment in the field or continue at a post-secondary institution. Qualified students may enroll in the Construction Management Program at the University of Washington upon graduation.

Codes LWSD Course Code: CTZ811/812. CIP 460000.
State Course Code: 17002



WANIC - Cisco Networking Academy CCNA (Year 1)

Location – Newport High School

3.0 credits – grades 11, 12

Meets Occupational Education (3.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite - Application & Acceptance through wanic.org.

Course fee - Contact teacher for information. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Discover how to design, build, manage, and troubleshoot corporate enterprise networks. Learn mitigation of security threats, cybersecurity threat management, and advanced troubleshooting skills with a major emphasis on hands-on learning. Python is introduced for scripting and configuration. Each day half the class time is spent working in a state-of-the-art networking lab. Students take the Cisco Certified Networking Associate (CCNA) exam at the completion of the course. Students who successfully complete CCNA may be eligible to apply for CCNP.

Codes LWSD Course Code: CTZ131/132. CIP: 110901.
State Course Code: 10102



WANIC - Cisco Networking Advanced CCNP (Year 2)

Location – Newport High School

3.0 credits – grades 11, 12

Meets Occupational Education (3.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Successful Completion of Cisco Network CCNA and Application & Acceptance through wanic.org.

Course fee - Contact teacher for information. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). This advanced curriculum trains students to install, configure, and operate local and wide area networks using protocols and technologies such as TCP/IP, OSPF, EIGRP, BGP, AAA, IPv6, MPLS, STP, DSL, VTP, Gigabit, and 10 Gigabit Ethernet. This course makes extensive use of labs to focus on developing skills to build campus networks using multilayer switching technologies, creating and deploying a global intranet, and troubleshooting. Be prepared to take the Cisco Certified Networking Professional (CCNP) exams at the completion of the course. Aspects of cloud computing with Microsoft Azure and Amazon AWS are covered as well as Voice-over-IP (VoIP) and Cisco Unified Communication Manager topics. Students use VMWare and Microsoft virtualization product to build servers in virtual and cloud environments. Students also gain experience in setting up and configuring Microsoft Server products.

Codes LWSD Course Code: CTZ133/134. CIP: 110901.

State Course Code: 10102.



WANIC - Culinary Arts Year 1

Location – Newport High School

3.0 credits – grades 11, 12

Meets Occupational Education (3.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite –Application & Acceptance through wanic.org.

Course fee – Contact teacher for information. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Culinary Arts is a comprehensive, career focused introduction to the fundamentals of culinary arts and the professional kitchen in a commercial kitchen classroom. Students learn French cooking techniques, culinary terminology, knife skills, aesthetics of food presentation, baking and pastry techniques, and explore a wide variety of foods and cuisines. In addition, students practice safety and sanitation procedures, restaurant management, customer relations, team and leadership skills, and catering and table service. There are also industry related field trips to observe professionals and explore career possibilities. Students who successfully complete Year 1 may be eligible to apply for Year 2.

Codes LWSD Course Code: CTZ331/332. CIP: 120503.

State Course Code: 16052.

WANIC – Culinary Arts-Advanced Year 2

Location – Newport High School

3.0 credits – grades 11, 12

Meets Occupational Education (3.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Successful completion of Culinary Arts Year 1 and Application & Acceptance through wanic.org.

Course fee – Contact teacher for information. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Students in Advanced Culinary Arts expand and refine their culinary expertise. Students are prepared with broad and transferable planning, management, communication, and advanced food production skills for employment and post-secondary education.

Codes LWSD Course Code: CTZ333/334. CIP: 120503. State Course Code: 16052

WANIC - Dental Careers

Location – WANIC @ Lake Washington Institute of Technology

3.0 credits – grades 11, 12

Meets Occupational Education (2.0 credit) and Lab Science (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Application & Acceptance through wanic.org.

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Explore many dental career possibilities. In a state-of-the-art dental skills lab, learn about instruments, dental materials, four-handed dentistry, preventative, restorative and specialty procedures, patient charting, sterilization, radiography, general and oral anatomy, microbiology, terminology, First Aid/CPR, and infection control. Successful completion of Biology strongly recommended prior to enrolling. Students will be reading college level textbooks and practicing their technical writing skills.

Codes LWSD Course Code: CTZ541/542 and SCO921/922. CIP: 510601. State Course Code: 14054.

WANIC - DigiPen Art & Animation Academy Year 1

Location – DigiPen Institute of Technology

3.0 credits – grades 11, 12

Meets Occupational Education (2.0 credit) and Art History/Social Studies (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite - Application & Acceptance through wanic.org. Information Session attendance required

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Open the door to the creative world of fine art and animation production. Study professional production animation from traditional art theory and skills development to composition and storytelling in 2D animation and 3D modeling. This program prepares students for further education and provides the baseline skills to succeed as an artist/illustrator/ animator in the video games and film industries. Students who successfully complete Year 1 may be eligible to apply for Year 2.

*Codes LWSD Course Code: CTZ181/182 and SOO731/732.
CIP: 110803. State Course Code: 10205.*

WANIC - DigiPen Art & Animation Academy Year 2

Location – DigiPen Institute of Technology

3.0 credits – grade 12

Meets Occupational Education (2.0 credit) and AP Art-Drawing (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Successful completion of DigiPen Art & Animation Year 1 and Application & Acceptance through wanic.org.

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Students in DigiPen Art & Animation Year 2 continue to expand and refine their skills in the creative world of fine art and animation production.

*Codes LWSD Course Code: CTZ185/186 and ARO343/344.
CIP: 110803. State Course Code: 10202.*



WANIC - DigiPen Music & Sound Design Year 1

Location – DigiPen Institute of Technology

3.0 credits – grades 11, 12

Meets Occupational Education (2.0 credit) and Fine Art (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite - Application & Acceptance through wanic.org. Information Session attendance required

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Discover the exciting opportunities of music and sound design. Combine music composition, history, and theory with practical training in studio recording techniques. Apply fundamentals in computer science, mathematics, and physics to sound design principles. Learn what it takes to work within teams in real-world settings to create interactive audio for video games and engaging soundtracks for film. Students who successfully complete Year 1 may be eligible to apply for Year 2.

Codes LWSD Course Code: CTZ061/062 and MUO061/062. CIP: 100203. State Course Code: 11051.

WANIC - DigiPen Music & Sound Design Year 2

Location – DigiPen Institute of Technology

3.0 credits – grade 12

Meets Occupational Education (2.0 credit) and Fine Art (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Successful completion of DigiPen Music & Sound Design Year 1 and Application & Acceptance through wanic.org.

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Students in DigiPen Music & Sound Design Year 2 continue to expand and refine their skills in real-world settings to create interactive audio for video games and engaging soundtracks for film.

Codes LWSD Course Code: CTZ063/064. CIP: 100203. State Course Code: 11051.



WANIC - DigiPen Video Game Programming Year 1

Location – DigiPen Institute of Technology

3.0 credits – grades 11, 12

Meets Occupational Education (2.0 credit) and AP Computer Science Principles (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Algebra 2 (or instructor approval) and Application & Acceptance through wanic.org. Information Session attendance required

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Become a maker of technology, not just a user of technology. Learn how digital games and interactive experiences are created. Students can expect to have fun developing games using a game engine while learning the basics of programming in C. By integrating mathematics and design theory students immerse themselves in the game production process and explore pathways into video game careers. Students who successfully complete Year 1 may be eligible to apply for Year 2.

Codes LWSD Course Code: CTZ153/154 and CTA563/564. CIP: 110803. State Course Code: 10160.

WANIC - DigiPen Video Game Programming Year 2

Location – DigiPen Institute of Technology

3.0 credits – grade 12

Meets Occupational Education (2.0 credit) and Math Analysis (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Successful completion of DigiPen Video Game Programming Year 1 and Application & Acceptance through wanic.org.

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Students in DigiPen Video Game Programming Year 2 continue to expand and refine their skills to create digital games and interactive experiences.

Codes LWSD Course Code: CTZ155/156 and MAO511/512. CIP: 110803. State Course Code: 10160



WANIC - Fire & EMS Year 1

Location – WANIC @ Lake Washington Institute of Technology

3.0 credits – grades 11, 12

Meets Occupational Education (1.0 credit), Lab Science (1.0 credit), PE (1.0 credit).

CTE Dual Credit - College Credit Available

Prerequisite – Application & Acceptance through wanic.org.

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Learn the skills necessary to pursue a career in the fire service and to be an integral part of a community emergency response team. Taught by fire-fighting professionals. Students are introduced to firefighter training, fire prevention, inspection and investigation, alarm systems, dispatching, CERT, and emergency medical services. Students drill at fire stations all over the Eastside in full bunker gear to further experience all this profession has to offer. Students will be reading college level textbooks and practicing their technical writing skills. This is a realistic mix of hands-on training and academic learning that closely imitates a career in this exciting field. [0.5 Health credit HEO511 available upon request to replace 0.5 PE or 0.5 of Lab Science for Semester 2]. Students who successfully complete Year 1 may be eligible to apply for Year 2.

Codes LWSD Course Code: CTZ751/752 and SCO751/752 and PEO751/752. CIP: 430203. State Course Code: 15151.

WANIC - Fire & EMS Year 2

Location – WANIC @ Lake Washington Institute of Technology

3.0 credits – grade 12

Meets Occupational Education (1.0 credit), Lab Science (1.0 credit), PE (1.0 credit).

CTE Dual Credit - College Credit Available

Prerequisite – Successful completion of Fire & EMS Year 1 and Application & Acceptance through wanic.org

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Students in Fire & EMS Year 2 continue to expand and refine the skills necessary to pursue a career in the fire service and to be an integral part of a community emergency response team. Students will be reading college level textbooks and practicing their technical writing skills. This is a realistic mix of hands-on training and academic learning that closely imitates a career in this exciting field.

Codes LWSD Course Code: CTZ753/754 and SCO753/754 and PEO751/752. CIP: 430203. State Course Code: 15151.



WANIC - Health Science Careers (Nursing)

Locations – Sammamish High School, WANIC @ Lake Washington Institute of Technology, Woodinville High School

3.0 credits – grades 11, 12

Meets Occupational Education (1.5 credit), Lab Science (1.0 credit), Health (0.5 cr Semester 2).

CTE Dual Credit - College Credit Available

Prerequisite – Application & Acceptance through wanic.org

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). This intensive course of study introduces students to a variety of careers in the health care industry with emphasis on hands-on, patient-oriented skills training for those interested in becoming nurses, physicians, and other therapists. Learn about a variety of health care topics, procedures and careers in patient care, and earn certification in CPR/First Aid. Students complete clinical experience hours in healthcare facilities to meet Nursing Assistant Certified (NAC) certification requirements. At the end of the year, students who meet course requirements for NAC qualify to complete the Washington National Nurse Aid Assessment Program (NNAAP) allowing them to provide patient care. Successful completion of Biology strongly recommended prior to enrolling. Students will be reading college level textbooks and practicing their technical writing skills. The rigor required for success in this class plus college credits earned allow students to immediately enter employment in the health care industry and/or to continue their post-secondary education.

Compare this class description with Medical Careers to understand your options.

Codes LWSD Course Code: CTZ501/502 and SCO901/902 and HEO511. CIP: 511614. State Course Code: 14051.

WANIC - Medical Careers

Location – WANIC @ Lake Washington Institute of Technology

3.0 credits – grades 11, 12

Meets Occupational Education (1.5 credit), Lab Science (1.0 credit), Health (0.5 cr Semester 2).

CTE Dual Credit - College Credit Available

Prerequisite – Application & Acceptance through wanic.org

Course fee - Check WANIC website. Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). Learn the language of doctors, nurses, and healthcare professionals in a state-of-the-art facility. Learn skills in pediatric ambulatory care, surgical instrument prep, vital signs, treatment room procedures, CPR/First Aid, law and ethics, medical terminology, infection control, patient positioning, and office practices including patient records. Program includes field trips, guest speakers, team building, and leadership activities and prepares students for further education or an exciting career. Successful completion of Biology strongly recommended prior to enrolling. Students will be reading college level textbooks and practicing their technical writing skills.

Compare this class description with Health Science Careers (Nursing) to understand your options.

Codes LWSD Course Code: CTZ531/532 and SCO911/912 and HEO511. CIP: 510801. State Course Code: 14151.

WANIC - Sports Medicine

Location – Issaquah High School

3.0 credits – grades 11, 12

Meets Occupational Education (2.0 credit) and Science (1.0 credit)

CTE Dual Credit - College Credit Available

Prerequisite – Application & Acceptance through wanic.org

Course fee – Contact teacher for information.

Financial Assistance may be available for qualifying students.

Course Description:

This is a full year 3-period Skill Center class (3 high school credits). In this advanced and accelerated course, students learn anatomy, physiology, medical terminology, First Aid/CPR, nutrition, injury prevention, taping and wrapping and rehabilitation competencies through classroom instruction, lab participation, and field internships.

Codes LWSD Course Code: CTZ591/592. CIP: 510913. State Course Code: 14062.

WANIC Skill Center is located on the campus of Lake Washington Institute of Technology

11605 132nd AVE NE (office #A108), Kirkland, WA 98034

Email: wanic@lwsd.org

Telephone: (425) 739-8400

Website: wanic.org

Addresses of other WANIC Skill Center program locations

Bellevue High School 10416 Wolverine Way Bellevue, WA 98004

Bothell High School 9130 NE 180th Street Bothell, WA 98011

DigiPen Institute of Technology 9931 Willows Road NE, Redmond, WA 98052

Interlake High School 16245 NE 24th St, Bellevue, WA 98008

Issaquah High School 700 2nd Avenue SE Issaquah, WA 98027

Newport High School 4333 Factoria Blvd. SE Bellevue, WA 98006

Sammamish High School 100 140th Ave. SE Bellevue, WA 98005

Woodinville High School 19819 136th Avenue NE Woodinville, WA 98072