



COURSE GUIDE

2022-2023



Your Career Starts Here at South King County's premier technical high school for career preparation and advancement!

Puget Sound Skills Center (PSSC) is a high-quality, free public high school that prepares students for success through a hands-on, workplace-like learning environment.

Students are taught by experienced professionals using state-of-the-art technology and equipment in industries such as aerospace manufacturing, healthcare, computer animation, and more. Students learn job-ready skills, earn industry certifications and dual high school and college credits, and gain work experiences that can fast-track them through post-secondary education and a career. Operated by Highline Public Schools, PSSC serves students from 22 partner high schools in Highline, Federal Way, Tukwila, and Tahoma school districts.

What does a PSSC student's schedule look like?

PSSC students spend half of their school day in their home high schools, and half the day at PSSC. The times of the school day, Monday through Friday, are:

Session 1: 7:55 a.m. – 10:25 a.m.

Session 2: 11:15 a.m. – 1:45 p.m.

Is transportation for students provided to PSSC?

Free school bus transportation is provided to PSSC by the Federal Way, Highline, Tahoma, and Tukwila school districts.

What credits can PSSC students earn?

PSSC credits are generally applied to occupational or elective graduation requirements. Depending on the program, academic equivalency credits in English, science, math, health, and fine arts may be earned after two semesters and a passing grade in a PSSC Career & Technical Education (CTE) class. High school equivalency credits are indicated with each course description in this catalog.

Can PSSC students earn college credits while in high school?

Students can save money and time by earning college credits while participating in a PSSC program. Agreements with local colleges allow students to earn free college credits. Students may earn up to 60 credits depending upon the program. PSSC currently has college credit agreements with 2-year, 4-year, and career and technical colleges. Students can check with their counselor or PSSC for a list of colleges with credit agreements and details.

Earning 2.0 credits in a skills center program meets the CTE graduation pathway.

Learn more at pssc.highlineschools.org or call us at 206.631.7300

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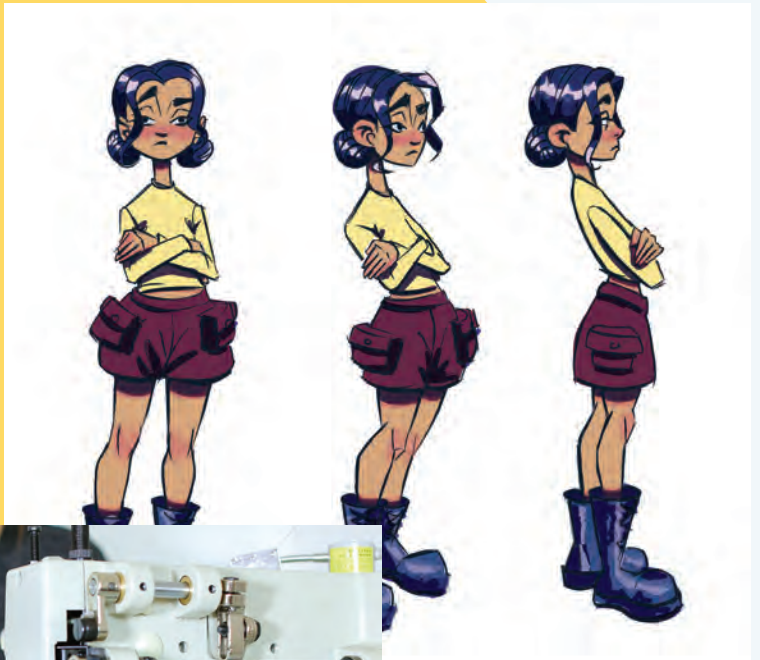
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Business, Marketing & Computer Technologies



3 VIEW CHARACTER DRAWING
BY ANIMATION STUDENT

Choose your program

Fashion Design & Marketing

AWS Cloud Academy

Digital Arts & Animation

DigiPen Video Game Programming (AP®)

Fashion Design & Marketing

Curious about the fast and exciting world of fashion, marketing, and interior design?

Through Fashion Design & Marketing, you will learn basic knowledge of color, textiles, the history of fashion, terms, trims and notions, fabric dyeing, printing, garment construction, production, patterns, cutting, and sewing fabric for the fashion industry. Fashion must have a place to be sold, and continuing this next step of knowledge, you will dive into the business of selling and successful marketing, including how to use different platforms to sell products. Interior design will be overviewed with highlights for those who may consider this industry.

We offer machine sewing throughout the year with instruction for accessory and garment sewing. Learning about fabrications includes care and wearability to determine what types of fabrics sew best into specific garments.

Career Opportunities:

- Fabric Designer
- Sourcing Specialist
- Creative Director
- Public Relations Agency Staff Member
- Influencer
- Stylist
- Import Coordinator
- Buyer
- Merchandiser
- Graphic Artist
- Store Owner
- Brand Manager
- Sustainability Consultant
- Store Manager
- Marketing Director

College Credits: Up to 13 available

Academic Equivalency Credit: 0.5 English, 0.5 Fine Arts



AWS Cloud Academy

NEW program starting in Fall 2022!

Disruptive technology! Big data! Digital transformation! Learn what these buzzwords mean and how they apply to the world of cloud computing in this new skills center program, sponsored by Amazon Web Services (AWS).

Cloud computing skills are in high demand, especially as the need to be digitally fluent increases and the world fluctuates between working in-person or from home. Cloud services create a virtual environment where you can save, access, and manage data, which usually ensures data security and safety, and saves time, money, and resources. Most businesses today have moved to a virtual form of data because it is very easy to manage and process.

AWS Cloud Academy lays the foundation with cloud concepts, AWS core services, security, architecture, pricing, and support skills. You will then be prepared to advance to intermediate-level course work in several areas of focus, including developing, architecting, operations, machine learning, and data analytics.

This Academy program will help you prepare for industry certification exams, making you highly employable in a growing field. Because you will participate in this program for 2.5 hours per day, you will advance through the curriculum at a rapid pace and level of understanding, preparing you for the speed at which the tech industry operates.

Career Opportunities:

- Cloud Administrator
- Cloud Architect
- Cloud Automation Engineer
- Cloud Infrastructure Engineer
- Cloud Security Engineer
- UI Developer

College Credits: TBD

Academic Equivalency Credit: 0.5 English, 1.0 3rd Year Math, 1.0 Computer Science



Digital Arts & Animation (AP®)

Do you watch anime? Do you like to draw or create digital media? Do you game? Do you use YouTube or Twitch? Have you wanted to become a content creator or start your own business? Do you know how to make money using your creativity?

If you answered YES to any of these questions, then this program may be for you!

You will learn how to bring innovation and creativity to life, starting by building a strong fundamental base of artistic skills and then dive into digital media tools, utilizing drawing tablets, Adobe CC Photoshop, Animate, and Character Animator.

The 2022–2023 school year will be a transitional year for the Digital Arts & Animation program, with an increased focus on all digital media platforms and content. Videography, motion graphics, and audio recording are some of the exciting potential additions to this program that will enhance your employment opportunities and earnings.

Field trips may include the Seattle Art Museum, Tacoma Art Museum, local animation businesses, and various online visits to intriguing sites.

Career Opportunities:

- 2D animator
- Background artist
- Character animator
- Digital ink and paint artist
- Producer
- Developer
- Content Creator

College Credits: Highline College (11 credits)

Academic Equivalency Credit: 0.5 English, 0.5 or 1.0 AP or Standard Fine Arts

DigiPen Video Game Programming (AP®)

This is your chance to level up from game player to game creator. Learn computer programming, as well as the mathematics, art, and design elements essential to modern video game production. Through the Unity 3D game engine and textbooks, acquire game design, real software engineering, and advanced problem-solving skills.

The curriculum features custom DigiPen textbooks, certification curriculum from Unity 3D, and multiple games to make in 2D and 3D. You are expected to create the project plans, art, music, and sound effects for your games, using our in-class digital tools. The class includes the Game 100 college course from DigiPen, where you create games individually and in teams.

Prospective students will have done well in Algebra 1 and/or more advanced courses, as software is mathematics converted into technology.

You will learn to:

- Program in C/C++/C#, fundamental languages, and more
- Develop a video game using a game engine, and digital graphics and audio tools
- Apply math and physics to create simulations
- Prepare for the AP® exam in computer science (year two)
- Create a digital portfolio of your work

Career Opportunities:

- Video Game Design/Programming/Production
- Software Engineering
- Digital Simulations
- Information Technology and STEM generally

College Credits: Up to 15 credits available

Academic Equivalency Credit: 0.5 English, 0.5 Algebra 2, and 0.5 Fine Arts

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DIGITAL ARTWORK BY ANIMATION STUDENT

Hospitality & Tourism



Choose your program

The Institute for Culinary Arts & Sciences

The Institute for Culinary Arts & Sciences

Do you crave professional training for a future career as a Chef, Pastry Chef, or Restaurant Manager?

Enroll in the Institute for Culinary Arts & Sciences program today! You will be taught by instructors with years of industry experience while operating an on-campus restaurant and catering facility. Learn advanced food theory and preparation techniques while attending food science labs that will prepare you for a multitude of jobs within the Hospitality Industry.

The Institute offers three pathways, each offering a specific curriculum that prepares you for a future career. You will learn about all three career areas during your first quarter of study, then you will choose your pathway from one of three options:

Restaurant Management

- Host/Server
- Barista
- Restaurant Manager
- Catering Manager
- Event Coordinator
- Hotel/Resort Management

Savory Foods

- Line Cook
- Production Cook
- Sous Chef
- Executive Chef
- Food Scientist
- Dietary Specialist

Baking & Specialty Desserts

- Artisan Baker
- Executive Pastry Chef
- Cake Decorator
- Chocolatier
- Bakery Owner
- Dessert Specialist

The Institute for Culinary Arts & Sciences is accredited by the American Culinary Federation (ACF), an internationally recognized professional chefs' association. The ACF has presented the program with the prestigious exemplary award for maintaining the highest educational standards recognized by the American Culinary Federation Accrediting Commission.



College Credits: Current Articulation Agreements with South Seattle College, Seattle Central College, and Renton Technical College. Earning a two-year certificate from the program meets the work experience requirement of the prestigious Culinary Institute of America.

Academic Equivalency Credit: 0.5 English, 1.0 Lab Science, and 0.5 Fine Arts

Competitions: All students participate in our annual In-House Mystery Basket Competition. This is a team competition led by industry chefs from the Seattle area. Students may also participate in an ACF-style individual competition. These offerings prepare students for a lifetime of competitive advantages.



Human Services



Choose your program

Criminal Justice

Fire & Emergency Services

Criminal Justice

Choose a career where you can make a difference in your community!

The Criminal Justice program will provide you with an understanding of all the different career opportunities in the field. You will learn about the criminal justice process, civil and criminal law, patrol tactics, white collar fraud crimes, crime scene processing, interviewing techniques, court room procedures, and corrections operations, among other topics. Your learning takes place through lectures, videos, and hands-on practical exercises involving individual and small group assignments. You will show what you know and can do through written reports and presentations.

As a program participant, you will benefit greatly from guest presenters who include current and former federal, state, and local law enforcement, attorneys, fraud investigators, and other industry professionals.

Career Opportunities:

- Law Enforcement—local, state, and federal
- Homeland Security
- Forensics
- Private and Industry Security
- Court and legal careers
- Corporate and private investigation

College Credits: Up to 10 college credits

Academic Equivalency Credit: 0.5 English, 0.5 P.E.

Fire & Emergency Services

Join us in this exciting and challenging program that prepares you for a successful career in fire or emergency services.

In this hands-on and engaging program, you will learn all aspects of the field, including fire investigation, public education, and fire prevention. You also will:

- Participate in actual training drills to further your knowledge of fire science.
- Develop competency in fire safety, incident management systems, use of hoses, ladders, self-contained breathing apparatus (SCBAs), and First Aid/CPR.
- Tour local fire stations, the Valley Communication Center, and the Washington State Fire Academy.
- Learn to combine great teaming skills with physical and mental strength as you progress through the International Fire Service Training Association (IFSTA) training program.

Some students are selected for sponsorship to an Emergency Medical Technician (EMT) class and our Wildland Firefighting apprentice program.

Career Opportunities:

- Firefighter
- Wildland Firefighter
- Paramedic/EMT
- Dispatcher
- Medical Technician

National Certifications Available: Red Card (Wildland Firefighting), FEMA – Incident Command System #100, #200, and #700; Healthcare CPR/First Aid certification

College Credits: 15 available at Bates Technical College, and 21 at the University of Alaska Fairbanks

Academic Equivalency Credit: 0.5 English, 0.5 Health, 0.5 P.E., and 1.0 Lab Science

Science & Health



Choose your program

Aeronautical Science Pathway

Biomedical Research and Global Health

Dental Assisting

Marine Science Technology

Nursing Assistant—Certified

Aeronautical Science Pathway (ASP)

Ready for takeoff? Your aviation career begins today! Join the Puget Sound Skills Center and the Museum of Flight's Aeronautical Science Pathway (ASP) program! This exciting and innovative program prepares you for high-demand, high-wage careers in aviation and aerospace.

- Earn up to 30 FREE college credits per year through Green River College in this two-year program, while still in high school! Credits can be applied towards an associate or bachelor's degree in Aeronautical Science at Green River College. Other aeronautical colleges such as Embry-Riddle Aeronautical University, University of North Dakota, or Central WA University may also accept the credits.
- Courses and topics range from Aviation History, Unmanned Aerial Systems, and Private Pilot Ground School to Airport Management, Airline Operations and Dispatch, and Air Traffic Control.
- Jet toward an exciting, in-demand career as a pilot, air traffic controller, dispatcher, airport or airline manager, or in the expanding field of unmanned aerial systems...and more.
- Immerse yourself in an unparalleled, aviation-rich learning environment at the renowned Museum of Flight where iconic aircraft, a space gallery, and over 200 docents with extensive flight-related experience will inspire your learning.
- Learn from industry experts and professionals, fly aircraft and drone simulators, and prepare for various FAA examinations required for certification.

Career Opportunities:

- Professional Pilot
- Airline Dispatcher
- Air Traffic Controller
- Airport or Airline Manager
- Unmanned/Autonomous Aerial Systems Technician, Specialist, Manager

College Credits: Up to 60 credits over two years; qualify for more credits with AP and other eligible courses.

Academic Equivalency Credit: 0.5 English, 1.0 Lab Science

Class Location & Time: The Museum of Flight, 3:45 p.m. – 6:00 p.m. Monday through Thursday with additional online assignments equivalent to 3.5 hours per week.

Transportation: Students enrolled in this program must provide their own transportation to and from The Museum of Flight.

For more information: If you have questions, please email ASP@museumofflight.org

Biomedical Research & Global Health

Offered in partnership with Seattle Children's, this program prepares you for many different career opportunities in biomedical research and healthcare. The program will provide a strong foundation in biological sciences and research through extensive hands-on laboratory experience, the review of case studies related to the prevention and elimination of disease, field trips to local organizations engaged in biomedical research, and guest lectures by local researchers.

The curriculum will also include emerging technologies such as gene editing, immunotherapy, and regenerative medicine, and will be replete with authentic research and real-world applications for improving human health. You will also learn about the variety of biomedical career opportunities available in laboratories, hospitals, and clinics.

Learn from a doctoral scientist who earned her PhD in Biology from the University of Washington and is the founding instructor of the Biomedical program.

Career Opportunities:

- Laboratory Technician / Technologist
- Clinical Research Assistant
- Biomedical Researcher
- Medical Technologist
- Veterinary or Animal Care Technician

National Certifications Available: CPR/BLS for Healthcare Provider with AED, OSHA 10-Hour General Industry (Healthcare)

College Credits: Up to 10 available

Academic Equivalency Credit: 0.5 English, 1.0 Lab Science

Dental Assisting

Begin your journey now into the exciting career as a Dental Assistant!

This program provides an introduction into the field of dentistry, with preparation for entry-level job opportunities in dental offices and clinics. Classroom theory and hands-on skills are taught with clinical experience at our on-site Sea-Mar Dental Clinic. You will also have the opportunity for internships within our local community. This program offers an excellent foundation for transitioning to post-high-school Pre-Dental and Pre-Hygiene programs.

The Dental curriculum includes preclinical sciences, oral pathology, health and safety, X-ray procedures, chairside assisting, sterilization, instrument identification, preventative and restorative procedures, ethics, and professionalism.

Career Opportunities:

- Dental Assistant
- Dental Hygienist
- Dentist
- Dental Lab Technician
- Dental Office Manager

National Certifications Available:

- CPR/BLS for healthcare providers
- OSHA Healthcare
- HIPAA
- NELDA (National Entry Level Dental Assistant Exam)

College Credits: Articulation with Renton Technical College, up to 10 credits

Academic Equivalency Credit: 0.5 English, 0.5 Lab Science, 0.5 Health

Marine Science Technology

Skilled marine and environmental professionals are in high demand! The Marine Science Technology program combines practical skills such as seamanship, navigation, and marine safety with Western Washington's curriculum in environmental science and oceanography.

You will work closely with professionals from the Seattle Aquarium and receive a pass that allows you to visit the aquarium whenever you wish. If you are interested in studying the ocean and marine life while in high school and developing a strong foundation for college studies and employment in the industry, this program is for you.

Career Opportunities:

- Oceanographer
- Marine Scientist
- Environmental Scientist
- Research Vessel Officer
- Marine Engineer
- Fisheries Technician

National Certifications Available: United States Coast Guard/Standards for Training and Certification for Watchkeeping (USCG/STCW)

College Credits: Highline College (pending)

Academic Equivalency Credit: 0.5 English, 1.0 Lab Science



Nursing Assistant – Certified

Jumpstart your future as a healthcare professional!

This year-long program provides a Washington State approved curriculum, preparing graduates for the Nursing Assistant Certification examination. Many colleges require this certificated coursework as a prerequisite into their healthcare programs. You will learn fundamentals of patient care, anatomy and physiology, medical terminology, and explore various career pathway opportunities in healthcare. You will also obtain further hands-on experience with patient care at a variety of clinical settings. Job opportunities are available upon completion of the program.

Career Opportunities:

- Nursing Assistant – Certified
- Emergency Room (ER) Technician
- Licensed Practical Nurse (LPN)/Registered Nurse (RN)
- Sports Medicine Professional
- Sonography Technician
- Radiology Technician
- Physical Therapist
- Phlebotomist

National Certifications Available: HIV, Bloodborne Pathogens, CPR/BLS for healthcare provider with AED, Nursing Assistant – Registered, Nursing Assistant – Certified, Standard 1st Aid Training, Dementia Training

College Credits: Up to 17 credits available with grade qualification

Academic Equivalency Credit: 0.5 Health, 0.5 English, 1.0 Lab Science



Trades & Industry



Choose your program

Aerospace Manufacturing & Engineering (AME)

Auto Body Technology

Automotive Technology

Construction Technology — Core Plus

Aerospace Manufacturing & Engineering (AME)

A Core Plus program developed and supported by industry leaders like Boeing

BUILD YOUR OWN FUTURE

Core Plus Aerospace delivers in-demand Skills and a head start toward internships, apprenticeships, and college programs that can launch exciting careers in manufacturing.

Get ready for Job opportunities in aviation maintenance, aircraft assembly, advanced manufacturing, machining, mechatronics, and more!

256K
Manufacturing Employees in WA State

96K
Average annual compensation in WA state

The aerospace manufacturing and engineering industries need you in their workforce, as indicated in this visual. Companies are now hiring qualified high school interns and skills center graduates, and many will provide subsidies to continue your education.

At PSSC, you will learn in a fully equipped laboratory/classroom, using technology that reflects what you will find in manufacturing and engineering businesses nationwide. You will learn to meet industry standards and timelines that will best prepare you for your future career. The AME curriculum includes emphasis in:

Manufacturing – Foundation Shop Skills, Safety, Quality Control, Precision Measurement, LEAN Manufacturing, and 5S.

Engineering – 2D & 3D CAD, Print Reading, Technical Sketching, and Parametric Modeling

Design – Design Fundamentals, Rapid Prototyping, Reverse Engineering

Composites – Basic lay-up, safety, and process to produce simple carbon fiber products

Career Opportunities:

- Aerospace Mfg
- Metal fabrication
- CAD/CAM
- Engineering
- Design
- Quality Control

Certifications Available: CPR/First Aid/AED, Manufacturing Skills – Part 1, Problem Solving, Critical Thinking, Interpersonal Skills, LEAN 5S, Personal Productivity; Teamwork and Time Management; Forklift Safety and Operation

College Credits: Up to 27 at local community and technical colleges

Academic Equivalency Credit: 1.0 English (0.5 Core+ curriculum/0.5 portfolio), 1.0 Geometry (3rd Year Math), 1.0 Lab Science, 0.5 or 1.0 AP or Standard Fine Arts

Auto Body Technology

Prepare for a high-demand, high-wage career in the Auto Body industry!

You will gain hands-on experience in a working auto body shop equipped with the latest technology. Earn the industry certification that enhances your opportunities for employment—I-CAR, which is the Inter-Industry Conference on Auto Collision Repair. You will also learn paint preparation and refinishing processes and how to use a side-draft spray booth, computerized estimating systems, and welding.

Career Opportunities:

- Auto Paint Specialist
- Auto Body Repair Specialist
- Insurance Appraiser

National Certifications Available: Inter-Industry Conference on Auto Collision Repair (I-CAR), Safety Program Certification

College Credits: Renton Technical College

Academic Equivalency Credit: 0.5 English



Automotive Technology

There is a huge demand for highly qualified automotive technicians. You can be part of this exciting industry!

Vehicles in today's world require extensive computer and mechanical knowledge. At PSSC you will acquire the knowledge and skills for both. A two-part program of hands-on application on a variety of vehicles, combined with in-class theory and application will prepare you to be able to work on older models, as well as the hi-tech models that customers now own.

Some of the skills you will learn are:

- Brakes to ASE certification level
- Electrical to ASE certification level
- Steering and Suspension to ASE certification level
- Engine diagnostics
- Heating and cooling system theory and repair
- Scan tool use and theory
- Engine theory and physics
- Auto and manual transmission theory
- Electric and hybrid vehicle theory

Career Opportunities:

- Dealership Service Manager
- Race circuit Crew
- Parts and Sales Technician
- Factory Technician
- Tire Center Technician
- Dealer Technician
- Marine Industry Technician
- Seattle City Garage Technician
- Insurance Investigator/Adjuster
- Military Motor Pool

National ASE Certifications Available: You have the option to become ASE certified in any of the eight areas of study. ASE certification is respected nationwide as the gold standard for success.

College Credits: Up to 30 available

Academic Equivalency Credit: 0.5 English, 1.0 Lab Science

Construction Technology — Core Plus

The construction industry needs you! Opportunities are unlimited, with the job market expected to continue growing through 2026 Just look around in your community, and you will see new homes, apartments and condos, industrial facilities, hospitals, and other structures being built. You can be part of this high-wage, high-demand industry.

In the PSSC Construction Technology program, you will learn the fundamentals of designing and building various structures. You will discover over 160 different career opportunities within the industry while preparing for your next career step, whether that is college, apprenticeship, or early entry into the workforce.

Career Opportunities:

- Construction Project Manager
- Contractor
- Roofer
- Electrician
- Carpenter
- Plumber
- Inspector

National Certifications Available: OSHA 10 Safety Training, Forklift Certification

College Credits: South Seattle College, Green River College (pending)

Academic Equivalency Credit: 0.5 English, .5 Algebra 1





Highline Public Schools
Puget Sound Skills Center
18010 8th Avenue South
Burien, WA 98148



Highline Public Schools, District #401, complies with all federal rules and regulations and does not discriminate in admission, access, treatment, or employment in education programs or hiring practices on the basis of race, creed, religion, color, national origin, age, sex, sexual orientation including gender expression or identity, marital status, honorably-discharged veteran or military status, the presence of any sensory, mental, or physical disability, or the use of a trained dog guide or service animal by a person with a disability. This holds true for all students who are interested in participating in educational programs and/or extracurricular activities.

Any person having inquiries should contact:

Age Discrimination Act, Americans with Disabilities Act, Affirmative Action, and Civil Rights Act (employees):
Chief Talent Officer, 206.631.3121

Civil Rights Act (students) and Title IX:
District Ombudsman, 206.631.3100, civilrightscoordinator@highlineschools.org; titleixofficer@highlineschools.org

Section 504 of the Rehabilitation Act:
Health & Social Services Compliance Manager, 206.631.3011, 504coordinator@highlineschools.org

Address: 15675 Ambaum Blvd. SW, Burien, WA 98166