Guidance Information *Mentors are a great resource as their relationship with students is the strongest in developing their Post High Plan. Insuring that students are on-track to graduate is a team effort and starts with student's passions and post-high plans. Use this TPS district link for the latest information about graduation requirements as they change by cohort.*

https://www.tacomaschools.org/guidance/Documents/Grad%20Reqs%20by%20year.pdf

SAMI Course Descriptions *Courses (some are offered on a bi-annual loop) are chosen by Pathway- either Math & Physical Sciences or Life Sciences and based on state graduation requirements. Courses designated as College in the High School CitHS have the option of purchasing college credits from TCC to start the college transcript. Students may sign up for AP tests (ordering is done in December) taken in May regardless of taking the AP tests.*

Internship & Pre-Internship

Next Move Internship Program 11th & 12th grade, Pre-requisites MENTOR GROUP, STRONG START and BRIDGE and INTRO to INTERNSHIP The Next Move Internship Program of Tacoma Public Schools works with the local professional community to design meaningful positions for high school students in order to provide each a preview of their professional future. By working alongside employees in a specific industry, student-interns gain enthusiasm for a possible career, while also acquiring skills and expertise needed to succeed in the workplace.

Current juniors and seniors are invited to participate in the Next Move Internship Program. After completing the online application, students participate in a series of professional development activities in preparation for a semester internship placement. Interns are then selected and placed for one or more of their class periods with a local business or organization. Each intern is supported throughout this process by the coaches of the Next Move Department, earning credit through their participation in this unpaid opportunity.

- **MENTOR GROUP** this multi-grade class meets on Fridays for two hours to develop leadership in the outcomes of: a post high plan connected to passions and interests, self-assessment of on-track to graduate status, mastery of standards and regular attendance. All these outcomes are taught by their mentor for four years through our pillars of community, balance, thinking and empathy. Student Led Conferences utilize the PERFORMANCE REVIEW skill of goal setting and reflection to develop their academic identity.

- **STRONG START** 9th grade students will gain the essential skills to make a successful transition from Middle School to High School. Students will receive academic support in the core freshman classes. Freshmen will also develop time management skills, will track their academic progress, and will get a jump start on projects that are required for High School Graduation. utilize the PERFORMANCE REVIEW skill of goal setting and reflection to develop their academic identity.
- **TIME** 10th, 11th, 12th grade, Pre-requisites: none TIME provides an opportunity for students to improve their organization and student skills, receive tutoring in content areas, and work with peers on individual assignments for other classes. Students should be prepared to both have time to work each class, and to participate in study skills learning activities.
- **BRIDGE** 10th, 11th, 12th grade, Pre-requisites: STRONG START & MENTOR GROUP Students in the BRIDGE program serve as peer leaders in classrooms. BRIDGE students are supported by a consultant teacher who works to build peer leader capacity and interpersonal skills with each BRIDGE student. utilize the PERFORMANCE REVIEW skill of goal setting and reflection to develop their academic identity.
- **INTRO to INTERNSHIP 11th grade, Pre-requisites: STRONG START, MENTOR GROUP, BRIDGE** – This course is designed to help students develop professionalism skills, explore their career interests, and prepare for internships in the community.
- **COLLEGE & CAREER 11th** grade to explore college and career opportunities and scholarships. Guidance for 12th graders will be in partnership with Mentors (Post High Planning outcome for Mentor Group) on Fridays during the A&A time when reps are invited to share about apprenticeships, tech/trade programs, 2-year colleges and 4-year colleges/universities.
- **Inclusive Leadership** 9th, 10th, 11th, 12th grade, Pre-requisites: none. Students in leadership will learn about youth voice, community development and capitalizing on our personal and collective strengths. We will create social and service opportunities for our entire school community. Topics will include effective and expressive communication, event planning, community service, school-wide culture, and connecting with future SAMI students at other schools. Leadership class is strongly recommended for all elected ASB officers, and open to all other students as well.

Math & Physical Sciences

Students who choose this pathway will take Intro Physics their 10th grade year and Intro Chemistry their 11th grade year

- **Algebra First Year One** (full year) 9th, 10th, 11th, 12th grade: Algebra Year One students study linear and quadratic patterns.
- **Algebra Second Year Two** (full year)9th, 10th, 11th, 12th grade, Pre-requisites: passing grade in Algebra Year One: In Algebra Year Two. Students work with a variety of functions, including higher degree polynomials, logarithms, sine, and cosine. Investigation of different function families continues to build proficiency and the ability to identify how function shifts generalize.
- **Geometry** (full year) 9th, 10th, 11th, 12th grade, Pre-requisites: passing grades in Algebra Year One In Geometry, students analyze shapes using both the rules of algebra and rigid motion transformations.

- **Statistics 1/2 (semester or full year)** 11th, 12th grade, Pre-requisites: passing grades in Algebra Year One Algebra Year Two, and Geometry In this course students participate in a large survey created and completed by students in the class. Statistical concepts, like survey sampling methods and confidence intervals, are learned as the survey unfolds. Statistics can be taken for only a semester or as a full year.
- **Financial Literacy (semester only)** 11th, 12th grade, Pre-requisites: passing grades in Algebra Year One Algebra Year Two and Geometry Financial Literacy investigates a variety of financial decisions, such as balancing a budget and paying for college, through research and projects driven by a student's own interests.
- **Culture and Math** (semester, pre-reqs passing Algebra 1, Geometry, Algebra 2)
- What are the cultural roots of the mathematics we study and use today? Even though it has been developed by individuals from widely varying cultural contexts, we take the consistency and universality of mathematics for granted. How does the western tradition stand in comparison to the mathematics developed by indigenous societies, labor communities, religious traditions, and other groups that can be studied ethnographically? By examining the cultural influences on people and the mathematics they practice, we shall deepen our understanding of mathematics and its relationship to society.
- **Pre-Calculus** (full year): 10th, 11th, 12th grade, Pre-requisites: C- or higher in Algebra Year One Algebra Year Two, and Geometry. In Pre-calculus, students analyze a variety of functions and continue to build their proficiency working with increasingly complex models and equations. Pre-Calculus also includes learning about common trigonometric ratios and identities. It is recommended that students taking Pre-Calculus plan to continue their studies with Calculus, though not necessary.
- **Calculus 1/2 (CITHS)** 10th, 11th, 12th grade, Pre-requisites: C- or higher in Pre-Calculus. In Calculus 1 students learn how to find derivatives, solve them, and some of their uses in real-world scenarios. An introduction to limits and their importance in proving Calculus concepts is also explored. In Calculus 2 students learn about integration, both how to solve integrals and some of their uses in real-world scenarios. Calculus 1 and Calculus 2 are separate college courses available for CITHS credit through TCC. Calculus 1 is MATH& 151 and Calculus 2 is MATH& 152. Concurrent enrollment in Physics provides more examples of Calculus in applied contexts.
- **AP Calculus BC** 11th, 12th grade, Pre-requisites: C- or higher in Calculus 1 and 2 or concurrent enrollment in Calculus 1/2: In AP Calculus BC students extend topics studied in Calculus 1/2 and introduces students to Taylor polynomials, parametric motion, differential equations, and polar coordinates. Concurrent enrollment in Physics provides more examples of Calculus in applied contexts.
- **Exploring Computer Science (semester or year)** Pre-requisites: None
  An introductory computer science course designed to engage students in computational thinking and practice. Students will complete inquiry-based lessons while using a variety of tools and platforms. Students will create projects like designing a website, coding a game, designing a phone app and others. No prior computer science knowledge is needed.
- **Exploring Technologies (semester)** Pre-requisites: none
  Exploring Technologies provides hands-on projects related to computer science, technology,

manufacturing, science, and engineering careers. Students will discover how technology is used in various career fields to improve our world.

- **AP Computer Science Principles (year long)** Pre-requisites: Exploring Comp. Sci. for 1 semester suggested. This course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. Computer Science Principles (CSP) is a full-year, rigorous, course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.
- **AP Computer Science A (yearlong)** Pre-requisites: Successful in Computer Science Principles. AP Computer Science A is a fast-paced course equivalent to a college introductory programming class. Students will learn about the exciting kinds of problems tackled by computer science while exploring the field's most important tool—programming. The course will be anchored around projects that will explore a broad range of fields that use programming to solve problems. Through these projects, students will study common, reusable algorithms and learn to analyze them for correctness and speed. The course will cover fundamentals of programming syntax and methodology using the Java programming language.
- **Intro Physics** 10th, 11th, 12th grade, Pre-requisites: Passing grade in Intro Biology, Algebra Second Year (or by teacher permission) Physics is the search for underlying truths of physical reality. Students will study Newton's Laws in this introductory lab science course. Physics is designed to be a class for 10th grade students.
- **AP Physics A** 11th, 12th grade, Pre-requisites: C- or better in Intro Physic , passing grade in Algebra 1-2, Geometry 1-2. This year-long course is open to all juniors and seniors who have passed Intro Physics with a C- or better. The class focuses on the big ideas typically included in an algebra-based introductory college-level physics sequence and provides students with enduring understandings to support future advanced course work in the sciences. Through inquiry-based learning, students will develop critical things and reasoning skills, as defined by the AP Science Practices. Topics of study will include Kinematics; Dynamics; Circular Motion and Gravitation; Energy, Momentum; Simple Harmonic Motion; Torque and Rotational Motion; Electric Charge and Electric Force; DC Circuits and; Mechanical Waves and Sound
- **AP Physics B** 11th, 12th grade, Pre-requisites: C- or better in Intro Physics 1-2, passing grade in Algebra 1-2, Geometry 1-2. This is a year-long course that can be taken before or concurrently with AP Physics 1. It is open to all juniors and seniors who have passed Intro Physics with a C- or better. This course focuses on the big ideas typically included in an algebra-based introductory college-level physics sequence, and provides students with enduring understandings to support future advanced course work in the sciences. Through inquiry-based learning, students will develop critical things and reasoning skills, as defined by the AP Science Practices. Topics include Fluids; Thermodynamics; Electric Force, Field, and Potential; Electric Circuits; Magnetism and Electromagnetic Induction; Geometric and Physical Optics; and Quantum, Atomic, and Nuclear Physics.
- **Introductory Chemistry** 10th, 11th, 12th grade, Pre-requisites: Passing grade in Biology 1-2, Algebra 1-2 Chemistry will address atomic theory, properties of matter, types of chemical reactions, pH, solution chemistry, and chemical forensics. Chemistry 1 is taken in the fall with Chemistry 2 in the spring. Chemistry is designed to be a class for 10th grade students. Students in 10th grade take Intro Chemistry in 10^{th} grade for Life Science Pathway and Intro Physics

11th. Or for Math & Physical Science Pathway students take Intro Physics 10th grade and Intro Chemistry 11th.

- **AP Chemistry** 11th & 12th grade, Pre-requisites: C+ or better in Intro Chemistry. Students will continue their study of atomic theory, properties of matter, types of chemical reactions, pH, solution chemistry, and chemical forensics.
- **Robotics** 9th, 10th, 11th, 12th grade, Pre-requisites: none Explore the applied engineering world of robotics. You will learn mechanics firsthand while designing, building, and programming robots to compete in several local and national competitions. You will have the opportunity to be involved in the many facets of a robotics team including safety, public relations, mentoring, community outreach, finance and construction. Advanced students will have the opportunity to work on advanced robots and develop new systems as well as mentor new team members.
- **Underwater ROV 9th, 10th, 11th, 12th grade**, Pre-requisites: enrolled in Robotics and/or AP CSP. Dive deeper into the world of robotics. Research, build and design a remote operated vehicle that you can pilot under water. Advanced students will have an opportunity to participate in robotic competitions through the MATE program.
- **Urban Cycling –** Pre-requisites none . Explore cycling and urban bike repair in this integrated PE and physics course. This course is outside on a bicycle so dress for the weather and helmets are required.
- **Environmental Design -Zoo and Park Projects (MAKERSPACE) (semester)** Pre-requisites: none Students will get an opportunity to develop electrical, 3D Modeling, modern manufacturing, show safety and coding skills to tackle problems in our community. Students will work through a series of real-world challenges, developing skills concurrently with problem solving real world challenges.
- **Pharmacology** 11th & 12th grade, Pre-requisites: Passing grade in Intro Chemistry. In this course, students will investigate the properties of the medicines through hands-on activities and labs. Students will simulate the processes by which drugs are designed and discovered. Students will further scrutinize the synthesis by performing a biological assay investigating and analyzing the biological pathway of medicines.
- **Astronomy** 11th, 12th grade, Pre-requisites: passing grade in Intro Physics. This course will explore our current understanding of the universe around us, answering such questions as “how big is the universe?”, how old is the universe and how can we possibly know anything about that stuff way out there. Our investigations will bring history alive as we learn about the development of special and general relativity, the big bang theory, black hole behavior, and hypothesis about the future of the universe.
- **Geology** 11th, 12th grade, Pre-requisites: C- or better in Intro Chemistry and Intro Physics. This course in physical geology will begin with an examination of the forces involved in the formation of the Earth. This includes igneous and volcanic processes, sedimentation, and weathering. Next, we will explore the processes currently shaping the Earth's crust, including folds, faults, earthquakes, and plate tectonics. Lastly, we'll delve into what actions sculpt the Earth's surface, from streams and rivers, to glaciers and wind. In class study and controlled labs will be balanced with trips out into the park to explore visible evidence of our region's past.

Life Sciences

Students who choose this pathway will take Intro Chemistry in 10th grade and Intro Physics in 11th grade

- **Introductory Biology** (full year) 9th grade, Pre-requisites: none Biology is taken concurrently with AP Environmental Science and is taught as an integrated course. This is designed to be a class for 9th grade students. Students take classes as a block: 1st/5th, 2nd/6th, 3rd/7th or 4th/8th
- **AP Environmental Science** (full year) – 9th grade only, blocked with Intro Biology
- **Introductory Chemistry** 10th, 11th, 12th grade, Pre-requisites: Passing grade in Biology 1-2, Algebra 1-2 Chemistry will address atomic theory, properties of matter, types of chemical reactions, pH, solution chemistry, and chemical forensics. Chemistry 1 is taken in the fall with Chemistry 2 in the spring. Chemistry is designed to be a class for 10th grade students. Students in 10th grade take Intro Chemistry in 10th grade for Life Science Pathway and Intro Physics 11th. Or for Math & Physical Science Pathway students take Intro Physics 10th grade and Intro Chemistry 11th

- **Molecular Biotechnology** (full year) 11th & 12th grade, Pre-requisites: C or better in both Intro Biology & Chemistry. This practicum-style course covers research techniques used commonly in molecular biology laboratories. Topics include experimental design, keeping a proper lab notebook, making solutions, isolation and manipulation of DNA, microbiology techniques, breeding and handling of fruit flies, statistics, careers in biotechnology, bioethics, and synthetic biology.
- **Cell Biology** (semester) 11th & 12th grade, Pre-requisites: C or better in Biology. In this course we will delve into the organelles, structures, systems, and molecules that make cells work. Prokaryotic (bacterial) and eukaryotic (both animal and plant) cells will be covered with a greater focus on eukaryotic systems. This is a challenging course that is taught at an early undergraduate level. Coursework consists of quizzes, exams, and extended reading assignments.
- **Molecular Biology** (semester) 11th & 12th grade, Pre-requisite: C or better in Biology. Cell Biology recommended. This course examines the molecular structures of DNA that affect the functions and regulation of genes. The framework of the course will be the Central Dogma of Molecular Biology (DNA —> RNA —> protein), and some genetics, bioethics, and synthetic biology will be covered. This is a challenging course that is taught at an early undergraduate level. Coursework consists of quizzes, exams, and extended reading assignments.
- **AP Biology** (full year) 11th & 12th, Pre-requisites: Biology 1 & 2 and Chemistry 1 & 2. In this fast paced class, students will learn four major topics: cells, genetics, ecology, and evolution. Each semester we use scientific principles to explore the fundamentals of life from the very basic unit of the cell, to how it is controlled through genetics, how organisms fit into the world, and how evolutionary pressures affect the world in which we live. Students will do several full scientific experiments each semester to better understand those relationships and to gather a full understanding of biology at the college level.
- **Marine Biology** (semester) 11th, 12th grade, Pre-requisites: Chemistry 1 & 2. A year-long course that will explore the last frontier on Earth - the ocean environment that covers over 70% of our planet. Concepts and processes in Oceanography, Marine Biology and Ecology, Marine Chemistry and Marine Aquaculture will be addressed. Plan to be outside on a regular basis. Students registering for Marine Sciences should plan to take Marine Science 1 in the fall and Marine Science 2 in the spring.
- **Anatomy & Physiology** (full year) 11th &12th grade, Pre-requisites: C- or better in Biology and Chemistry. Yearlong course dealing with the structure and function of the human body and

mechanisms for maintaining homeostasis within it. Includes the study of cells, tissues, the integumentary, skeletal, muscular, cardiovascular, digestive, and nervous systems. Identification of anatomical structures will occur in the laboratory, with some animal dissection required. Some vertebrate anatomy will also be covered. Will be taught in cooperation with TCC. College credits are available with payment.

- **Neuropsychology** (semester, Spring 2020) 11th & 12th grade, Pre-requisites: C- or better in Intro Biology and Intro Chemistry This course will introduce you to the foundations of two diverse scientific fields: neuroscience and psychology. We will study the brain at different scales: from the microscopic level of single neurons to analysis of behavior stemming from higher brain functions. Through the lens of psychology, we will study human behavior and the human experience make sense of their environment, and how patterns of activity in the individual cells that make up the nervous system give rise to our ability to move, develop, think, feel, and learn. Through the lens of psychology, we will study human behavior and the human experience.
- **Environmental Justice** (semester) 11th & 12th. Students will have the opportunity to work on environmental justice projects that will include the greater community. Open to all experiences but are well suited to students comfortable with working in the community on environmental leadership projects in interdependent groups**.**
- **Zoo Conservation 1 & 2** (semester each) 10th, 11th & 12th grade, Pre-requisites: Biology 1 & 2. Students will use the animals of the zoo to explore conservations issues in our own backyard and around the world. In this class, students will explore individual animals in the zoo, look at how humans are impacting those organisms around the world, and what organizations, including PDZA, are doing to conserve the biodiversity of planet earth.
- **Fisheries Management CORE Project** (semester) 11th & 12th grade, Pre-requisites: Intro Biology. The Chinook Orca Recovery Education Program works with the Puyallup Tribe to raise Chinook fry to feed the starving J Pod of Orcas or Southern Resident Killer Whale in accordance with the governor's task force. Close work with Chief Leschi Schools and their biology classes and the Puyallup Tribe Fisheries.
- **Outdoor Education 1** (semester) Fall Plants: 9th, 10th, 11th 12th grade, Pre-requisites: none. The fall semester of outdoor education focuses on daily cardiovascular exercise and observation of native plants in Point Defiance Park. Students should plan to be outside daily. Outdoor education is highly recommended for all SAMI students.
- **Outdoor Education 2** (semester) Spring Plants: 9th, 10th, 11th 12th grade. Pre-requisites: none. The spring semester of outdoor education focuses on daily cardiovascular exercise and observation of native plants in Point Defiance Park. Students should plan to be outside daily.
- **Environmental Field Biology** (fall semester) Pre-requisites: passing Intro Biology and Outdoor Education. This course is designed to explore both the environmental and the social aspects of Tacoma and the greater Puget Sound Region.
- **Forest Ecology** (spring semester) 11th, 12th grade, Pre-requisites: passing Intro Biology, Intro Chemistry, Outdoor Ed and Environmental Field Biology. Using the forest environment in Tacoma's Point Defiance Park, students will study all aspects of ecology including forest structural development, biogeochemistry, and classification, soils, and wildlife habitat. Students will complete a culminating course project. Students should plan to be outside daily. Pre-requisites: Biology, Chemistry, Outdoor Education.
- **Early Xplorers (semester)** Pre-requisites: none. This is a two-part class. One part is centered around child development and care. Successful completion of this portion will earn you a Washington State Child Care Basics certification. The second part of the class directly works

with preschool children. Classes of preschoolers come to SAMi and we take them out into the zoo and woods helping them to make personal connections with animals and plants leading to empathy and conservation.

Humanities

4 credits (8 classes) of English and 3 credits (6 classes) of Social Studies/History are required for graduation

- **English- 9th/10th grade** This is an integrated course over two years that includes 9th/10th teaching project- based topics related to our place here in Pt. Defiance Park and Environmental Writing/Poetry and Technical Writing.
- **CitHS English 11th/12th College in the HS 101 and 102** Students will study select literature texts, the writing process and non-fiction. Writing for a varied audience and reading with a variety of purposes will be a focus. 11th /12th grade English fulfills a graduation requirement and should be registered for both fall and spring semesters. This course is offered as a College in the High School course for ENG101 and ENG102 credit over two years.
- **Civics 11th/12th** Students will study government, history, law, and democracy. Discussion of current local, national and international issues and events in to use the context of our place in Pt. Defiance Park will be the central theme of the course. Students will have the opportunity to apply what they learn through performing community service linked to units of instruction. Student participation in school/community governance and/or simulations of democratic processes and procedures will be encouraged.
- **World Problems (World Issues) 11th/12th:** Students will study current issues in light of the sciences studied at SAMI. 11th / 12th grade World Problems fulfills a graduation requirement and should be registered for either in the fall or spring semester. All juniors and seniors must register for this class. World Problems (World Issues) and Civics are offered on an every other year basis.
- **United States History & Government 9th/10th** This course uses Common Core reading, writing and communication standards to analyze formative turning points in United States History and Government**.**
- **Exploring WA State History 9th/10th:** This course is the high school advanced version of our Middle School Grade Washington State History, studying other local historical events and investigating how they impact policy in Pierce County and Olympia. The focus is on how knowledge of the past can shape today's choices, including knowledge of oral history, tribal sovereignty, economic systems, and social movements. Projects in Pt. Defiance Park are our focus.
- **World History 9th/10th** This course uses Common Core reading, writing and communication standards to analyze fundamental turning points in World History.

- **History Connects** – This course helps develop personas from the 1850s to become docents at Ft. Nisqually and through outreach to local elementary schools.
- **Comparative Cultures** 11th, 12th, Pre-requisites: None In preparation for college level English, students will explore ideas on important topics through a balance of argumentative and dialogue-based skill development. Development of higher order questioning and evidence based response, while building on and/or challenging opposing viewpoints (democratic dialogue) will be the bulk of this course. Interdependent group work to carefully examine all sides of an issue, argumentative essays/blogs and culminating large-group seminars will support skill development. Topics will be determined by instructor.
- **AP Language 11th/12th** pre-req 10th grade English. This course satisfies the English core graduation requirement and is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style.
- **Creative Writing** 10th, 11th, 12th This course provides the student with opportunities to write in a variety of genres, such as short story, poetry, drama, essays, descriptive writing, screen play and children's literature related to our place here in the Pt. Defiance Park. Students will study writing samples and produce their own creative works.

World Language

Students need 2.0 credits (4 classes) to graduate competitive colleges & universities require 3.0 credits of the same language

- **Spanish First Year** Pre-requisites: none Students will be introduced to the Spanish language and culture in this introductory world language course. Students interested in four-year universities should plan to take 2 consecutive years of world language, as it is an admissions requirement of many schools.
- **Spanish Second Year** Pre-requisites: passing grade in Spanish First Year Students continue their study of the Spanish language and culture, focusing largely on building vocabulary, knowledge and use of verbs, and the many tenses.
- **Spanish Third Year** Pre-requisites: C- or better in Spanish Second year Students continue their study of the Spanish language and culture, focusing on conversation and building language capacity.
- **Spanish Fourth Year** Pre-requisites: C- or better in Spanish Third Year In Spanish Year Four students continue their study of the Spanish language and culture, focusing on complex conversation and composition. Spanish 7-8 students work in collaboration with students in Spanish Third Year
- **Zoo & Park Spanish Interpretation –** pre-req Spanish year 3 with C or better. This course supports our partnership in Pt. Defiance Zoo & Aquarium and Pt. Defiance Park (Metro Parks Tacoma) to train student docents. We hope to welcome Spanish- speaking visitors to the zoo and park through in-depth conversations about zoo animals and/or park features. This course focuses heavily on interpersonal communication.

- **Heritage Language –** pre-req Spanish year 3 with C or better. This course develops and honors the heritage languages. Students will work towards earning the Seal of Biliteracy for their transcript as an Industry Recognized Certificate.

Fine Arts

Students need 2.0 credits (4 classes) to graduate

- **Art Design 1, Scientific Illustration:** (fall semester) Pre-requisites: none Students are introduced to the elements and principles of design through many genres of art. The emphasis of this course will be on drawing and learning is project based.
- **Design 2, Botanical Illustration:** (spring semester) Pre-requisites: Design 1, Continues the study of the elements of design, varying genres of visual arts, and art history. Project based learning through the study of botanical forms.
- **Advanced Visual Arts** Pre-requisites- Design 2. Students will further explore various mediums through project-based learning and continue to develop drawing skills and study genres and history of visual art.
- **Animal Life Drawing:** Pre-requisites: C or better in Design 1 and Design 2 Students continue to study the elements and principles of design with emphasis on drawing animal forms from life.
- **Painting** Pre-requisites: C or better in Design 1 and Design 2 Students continue to study the elements and principles of design with emphasis on drawing animal forms from life based in Pt. Defiance Park, Zoo & Aquarium.
- **Fusion Nature Photography & Film** – 11th and 12th grade – Pre-reqs Design 1 and 2 C or better. This course uses the foundations of design to produce photography and video in the park and the zoo. Expectations of the course are to provide photos for our SAMi high school Instagram page and longer fusion pieces (photography and video) for semester showcases.

Physical Education & Health

Students need 1.5 credits (3 classes) of PE and .5 credit (1 class) of Health

- **Outdoor Education 1** Fall Plants: 9th, 10th, 11th 12th grade, Pre-requisites: none The first semester of outdoor education focuses on native plants in Point Defiance Park. Students should plan to be outside daily. Outdoor education is highly recommended for all SAMI students.
- **Outdoor Education 2** Spring Plants: 9th, 10th, 11th 12th grade, Pre-requisites: passing Out Ed. 1 The second semester of outdoor education focuses on ethno-botany of the plants studied in Outdoor Education 1. Students should plan to be outside daily.
- **Urban Cycling** Explore cycling and urban bike repair in this integrated PE and physics course. This course is outside on a bicycle so dress for the weather and helmets are required.

- **Park Walk Waiver** – students who spend 4 years walking the trails between classes will earn a Park Walk Waiver of .5 credits. This will not appear on the transcript but will be a waiver as demonstrated by four years of walking throughout Pt. Defiance Park.
- **Strong Start** 9th graders take Health during their Spring Semester for .5 FLASH Health curriculum
- **YMCA Workout -** Set and achieve your own personal fitness goals with guidance from YMCA staff. Grade is determined by your regular attendance and weight and conditioning standards.
- **Yoga** – work to build strength and resilience in our yoga class taught at the beginning of the day.

Early Release for Sports at local high school

With notification from the coach or the athletic director of their local high school, students may have early release each day 4th and 8th period. All students receive an Orca bus pass and with the 1:30 dismissal will have the opportunity to try out for a sports team. Work with the mentor and the registrar to ensure core classes are scheduled for the remaining 6 periods. Please email Ms. Hampton at champto@tacoma.k12.wa.us and include guardian and coach or athletic director in this planning.

Cross Enrollment at SOTA or iDEA

SOTA and iDEA classes are available to SAMi students (11th – 12th only, 9th & 10th with instructor, mentor and co-director permission) Please refer to the "academics" tab on the SOTA and iDEA websites (www.tsota.org) for course descriptions and prerequisites. Students taking classes at SOTA or iDEA should plan to take 2 courses back-to-back (Example: 1st & 2nd) and travel via our school bus shuttles or student-provided transportation at lunch. SAMI students may take no more than 2 classes per semester at SOTA or iDEA. These classes must be in the "Elective" category for graduation. Not all classes are offered each year so check their master schedule.

SOTA's website is www.tsota.org

IDEA's website is www.tacomaschools.org/idea

Classes offered by permission to 9th and 10th grade students at SOTA

- **String Orchestra** This class meets in the Fall Semester only. This is a non-auditioned class for students continuing in string orchestra from middle school. Please note that students must read sheet music. This class performs a concert at the end of Fall Semester. This class combines with the Concert Band to become a Full Orchestra during the Spring Semester.
- **Concert Band** This course meets in the Fall Semester only. This is a non-auditioned band class for students continuing in band from middle school. Please note that students in this class must read sheet music. This class performs a concert at the end of Fall Semester. This class combines with the String Orchestra in the Spring Semester to become a Full Orchestra.

- **Concert Orchestra** This class meets in the Spring Semester only. This is a non-auditioned large ensemble made up of band and orchestra musicians performing as a large Full Orchestra. All musicians new to the Instrumental Music Program may begin in this ensemble and may audition in the Spring to be in other ensembles the following year. This group will perform a concert at the end of Spring semester.