SEATTLE ACADEMY

UPPER SCHOOL CURRICULUM GUIDE

2020-2021

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Updated 9/2020

Preparing Students for College and Life

OUR MISSION

Seattle Academy is a dynamic community that challenges students to question, imagine, and create in order to contribute boldly to a changing world.

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Registration

Students register in the spring with the help of their advisors for the following academic year. Math and World Language placements are made in consultation with the Math and World Language Faculty and are finalized in the spring. Placement for arts courses with required auditions occur after auditions are held in the spring. Students select elective courses for all subject areas from a range of choices and are placed in classes based on availability and with consideration of level and complexity of schedule.

Students should earn a minimum of 23 credits per year during 9th and 10th grades, 20 credits during 11th grade. Seniors are required to take 6 classes minimum per trimester. If fewer than 6 classes are taken, approval of the Head of the Upper School is required. These 6 classes do not include community service, independent studies, or after school activities. During the spring of senior year, due to senior projects, seniors only earn half-credit in all courses they are enrolled in other than English. Senior projects provide .5 credit toward the English requirement.

Schedule/Course Changes

There is a three day add/drop period the first week of each trimester. Students are allowed to add/drop an elective course during this time by request through a Google form. We generally do not allow students to drop a yearlong course or to make a change that involves a change of instructor for a yearlong course. When these changes are requested, students will need the approval of the Head of the Upper School, Advisor, Teacher, Dean, and Registrar.

Outside Credits

Students are allowed to earn 5 trimester credits outside of Seattle Academy. Credits must be earned with an accredited organization and must be pre-approved by the Registrar. Outside credits are recorded on transcripts as pass and are not calculated into the grade point average. Outside credits count as elective credits, with the exception being PE credits, which can count toward the PE requirement, and credits made up to replace a failed course (see below). Outside PE credits and failed classes that are made up outside of Seattle Academy are considered part of the 5 allowed credits.

Making up an F for required credits/repeated courses

If a student fails a required course he/she must retake the course or take an online equivalent and pass in order to fulfill the requirement to graduate. Failed courses can be made up through Yellow Wood Academy, BYU Independent Study, or another educational institution approved through the Registrar. Failed classes that are made up outside of Seattle Academy are considered part of the 5 allowed credits.

Failing grades are not removed from the transcript. Both courses are included on the transcript. Credit from outside institutions are recorded as pass on the transcript.

Independent Study

Independent Study courses are designated primarily for juniors and seniors and are arranged between a student and an instructor in an area in which the student has a special interest. The student and instructor develop a contract of work, which includes a minimum of a once-a-week meeting and a time commitment from the student of at least 40 hours of work. Independent study courses earn a pass, not a grade and count as an elective credit. Learn more about the Guidelines here.

Credit Waivers for Graduation Requirements

We encourage students to complete the graduation requirements at Seattle Academy. In exceptional cases, waivers for graduation requirements will be considered by the administration.

Incompletes

Incompletes can be issued at midterm or end-of-term for a variety of reasons. If an incomplete is issued, faculty will provide a written statement that indicates material to be completed and a completion date. Once the work is complete, the transcript will be adjusted.

Grading Policy

Letter grades are based on a grading scale that includes (+) plus and minus (-) grades. A(4.0), A-(3.7), B+(3.3), B(3.0), B-(2.7), C+(2.3), C(2.0), C-(1.7), D+(1.3), D(1.0), D-(0.7), F(0).

Pass grades are not figured into the grade point average. High Honor Roll is a GPA of 3.75 and above. Honor Roll is a GPA of 3.45 to 3.74 and are based off of a studetn's unweighted GPA.. Seattle Academy calculates a weighted academic core cumulative GPA by adding .5 to the honors courses listed at right.

HONORS CLASSES

Honors English 11
Honors English 12
Honors History 11 (American History)
Honors History 12
Honors Calculus 1
Honors Calculus 2
Honors Statistics
Honors Chinese 4
Honors Chinese 5
Honors French 4
Honors French 5
Honors Spanish 4
Honors Spanish 5
Honors Advanced Chemistry
Honors Biology*
Honors Physics

*Students may also earn honors distinction in

INNOVATIONS DISTRIBUTION AND GRADUATION REQUIREMENTS

This table illustrates the Innovations Distribution that are part of the new graduation requirements.

Grade	Trimester	Trimester	Trimester	
9th	Rhetoric	Health	Beginning Studio Arts	**Required for graduation beginning Class of 2022.**
10th	Innovations	Computational Thinking	Financial Literacy	Financial Literacy, Innovations and Computational Thinking **required for graduation beginning Class of 2022.**
11th	Entrepreneurship and Design	Health		These courses offered beginning **Fall, 2019-20. Required for graduation beginning Class of 2021.**
	One additional course is required in each of these areas during either junior or senior year.			
12th	Financial Literacy	Computational Thinking		

CLASS OF 2021 • GRADUATION REQUIREMENTS

Seattle Academy's academic year is divided into 3 trimesters. 81 trimester credits and 160 hours of community service are required to graduate. These 81 credits are made up of the following:

HUMANITIES	**30**
English	12
History / Social Studies	9 *
World Languages	9 *
STEM	**21**
Math	9 *
Science	9 *
Math or Science	3
COMPUTATIONAL THINKING	**1**
FINANCIAL LITERACY	**2**
ENTREPRENEURSHIP AND DESIGN	**2**
ARTS	**7**
Distribution areas	4
Required electives	3
PHYSICAL EDUCATION / HEALTH	**6**
Health	2
Physical Education	4
ADDITIONAL CREDITS	**12**
(Earned through a fourth year of core academic courses, general electives, and/or study skills)	
TOTAL CREDITS REQUIRED TO GRADUATE	**81**

✱ = MINIMUM REQUIREMENT
Most students will be encouraged to take a 4th year.

GRADUATION REQUIREMENTS FOR CURRENT UPPER SCHOOL STUDENTS

CLASS OF 2021	**81**	phasing in
CLASS OF 2022 *and beyond*	**84**	full new requirements

CLASS OF 2021 • ADDITIONAL GRADUATION REQUIREMENTS

Community Service Graduation Requirement

Seattle Academy has a graduation requirement of 160 service-learning hours. In response to COVID-19, the annual service-learning requirement has been reduced from 40 to 20 hours beginning in the 2020-2021 academic year for all Upper School students. Therefore, the graduation requirement for the class of 2021 has been adjusted to 125 hours which represents a reduction of 15 hours for the 2019-20 school year, and a reduction of 20 hours for the 2020-21 school year. **Class of 2021 Graduation Requirement = 125 hours.**

Health Requirement

Two credits of Health are required within the Physical Education requirement.

Washington State History Requirement

This course is completed in the 7th grade year at Seattle Academy and usually completed in the 7th or 8th grades at other institutions. Students in grades 9 to 12 who have not taken Washington State History will be scheduled to take the course their senior year in order to fulfill the requirement.

Additional Credits

When students continue to take classes in an area and have fulfilled their graduation requirement the credit is applied to the elective requirement.

CLASS OF 2022 AND BEYOND • GRADUATION REQUIREMENTS

Seattle Academy's academic year is divided into 3 trimesters. 84 trimester credits and 160 hours of community service are required to graduate. These 84 credits are made up of the following:

HUMANITIES	**31**
English	12
History / Social Studies	9 *
World Languages	9 *
Rhetoric	1
STEM	**21**
Math	9 *
Science	9 *
Math or Science	3
COMPUTATIONAL THINKING	**2**
FINANCIAL LITERACY	**2**
ENTREPRENEURSHIP AND DESIGN	**2**
ARTS	**7**
Distribution Areas	4
Required Electives	3
PHYSICAL EDUCATION / HEALTH	**6**
Health	2
PE	4
ADDITIONAL CREDITS	**13**
(Earned through a fourth year of core academic courses, general electives, and/or study skills)	
TOTAL CREDITS REQUIRED TO GRADUATE	**84**

✱ = MINIMUM REQUIREMENT
Most students will be encouraged to take a 4th year.

GRADUATION REQUIREMENTS FOR CURRENT UPPER SCHOOL STUDENTS

CLASS OF 2021	**81**	phasing in
CLASS OF 2022 *and beyond*	**84**	full new requirements

CLASS OF 2022 AND BEYOND • ADDITIONAL GRADUATION REQUIREMENTS

160 Hours of Community Service
Please see the explanation of Community Service on page 9.

Health Requirement
Two credits of Health are required within the Physical Education requirement.

Washington State History Requirement
This course is completed in the 7th grade year at Seattle Academy and usually completed in the 7th or 8th grades at other institutions. Students in grades 9 to 12 who have not taken Washington State History will be scheduled to take the course their senior year in order to fulfill the requirement.

Additional Credits
When students continue to take classes in an area and have fulfilled their graduation requirement the credit is applied to the elective requirement.

COMMUNITY SERVICE

160 hours of community service required.

To help our students build an understanding and respect for what it means to fully participate in society, we ask all students to serve our local and global community in ways that are meaningful to them, turning a passion into action. Service credit can also be earned by volunteering for tasks within the Seattle Academy community.

All hours must be entered and reflection questions answered completely on the Seattle Academy Community Service Online Tracking System X2Vol, to receive service credit. Service entries should be entered online within three months of the service date to be recognized and credited. To access the online system, go to: https://www.x2vol.com

Students can find their student ID # number logging onto My Backpack, then by clicking onto Academic Info, then Student Schedule. The ID number will be at the top of the page.

- At least 80 hours must be earned outside of the SAAS community.
- These requirements may be adjusted if a student enters Seattle Academy after 9th grade.
- Students are required to bring verification from outside organizations.
- Service entries must be entered online within three months of the service date to be recognized and credited.
- Service hours cannot be double counted. For example, if a student receives compensation or class credit, zero hours will be counted toward the graduation requirement.

Our student-led Community Engagement Organization (CEO) has created a list of remote service-learning opportunities that can be found by clicking on this link to our website.

External Service Opportunities

These opportunities include but are not limited to nonprofit organizations such as food banks, parks, environmental restoration and/or arts projects, hospitals, shelters and retirement homes that provide health, human and/or civic services. External hours can also be earned by participating in SAAS- sponsored trips that contain a service component.

Internal Service Opportunities

Students can earn up to a MAXIMUM of 40 hours serving as a Teacher Assistant (TA) for SAAS faculty, an athletic manager or arts department stage/production assistant. Although students may work more than 40 hours, ONLY up to 40 hours count toward the graduation requirement. Additional hours credited toward the graduation requirement include peer tutoring and volunteering for SAAS events like Open House and SAAS in the City. Only the literal amount of hours served will be awarded. Students can TA multiple times, but only a maximum of 40 hours will be recognized toward the graduation requirement.

SENIOR PROJECT

Senior Projects count as .5 English credit and is graded on a pass/fail basis

The Senior Project Program is a culminating experience in the Seattle Academy curriculum. An objective of the Senior Project is to provide career-exploration opportunities for students in order to obtain real-life employment experience. As part of ***Preparing Students for College and Life***, the Senior Project Program is offered the final half of spring trimester. This non-paid educational internship is designed to add value to the business and provide students with real-world job experience in an area of interest. Students will work with an advisor during the winter trimester to begin the brainstorming process to determine potential outside internship sites, or to identify an internal domestic project. Senior Projects begin after spring break for a six-week duration.

Students who have completed their academic and service credit requirements will then continue with only their internship, which includes regular writing assignments about the work experience and a final presentation. Students will receive English credit for their Senior Projects, which are graded on a pass/fail basis.

2017-2018 Senior Project Mentors and Sites

21 Acres
5focus
A3 Acoustics
Alliance for Gun Responsibility
Alliant Insurance Services
Amphipod, Inc.
Animal Surgical Clinic of Seattle
Antica Farmacista
Audienz
Avant Physical Therapy
Bellevue Discovery Preschool
Bespoke Treatments Physical Therapy
Bike Works
Black Umbrella Music
Boyer Children's Clinic
Cancer Pathways
Capitol Hill Housing
Capitol Hill Blog
Coal Headwear
CollinsWoerman
Columbia City Fitness Center
Cyrus Biotechnology
Directions on Microsoft
EasilyBuild.com, Inc.
El Centro de la Raza
Eleven 11 Solutions
Elmore Electric
Expedia, Inc.
Field & Grove Design Studio
Flying Heritage & Combat Armor Museum
foundry10
GEM Real Estate Partners
Glasair Aviation LLC USA
Hand Crank Films
Harley Marine Services
Harvard Avenue School
Inspo Network
IUNU
Kate Vrijmoet Artist's Studio
King County Department of Public Defense
King County Prosecutor's Office
King County Superior Court
Kaiser Permanente of Washington State
Leschi Elementary School
Likewise
Low Income Housing Institute
Luly Yang Couture
Mead St. Productions llc
Microsoft
Mithun
Moment
Newman Partners
NOLS (National Outdoor Leadership School)
Nuflours
Oddfellows Cafe
One Love Foundation
Overlake hospital
Oxbow Farm & Conservation Center
Phinney Bischoff
Pike Place Market Foundation/The Market Commons
Port of Seattle
Post-Prison Education Program
Prime 8 Consulting
Pure Watercraft
Richmond Public Relations
Salt & Sucre – A Pop-Up Restaurant
Salua Lingerie LLC
Saykara
Seattle Children's Alyssa Burnett Adult Life Center
Seattle Children's Theatre
Seattle Repertory Theatre
Seattle Sounders FC
Seattle Storm
Seattle University
Seattle University Center for Environmental Justice and Sustainability
Seattle University School of Law
Seattle University Sports Medicine
Spruce Street School
St. Joseph School
Switch Healthcare, Inc
TAI Madison Park Physical Therapy
The 5th Avenue Theatre
The Center for Wooden Boats
The Jewelbox Theater at The Rendezvous
The Nature Conservancy
The Sports Medicine Clinic
The Washington Bus
Tim Kennedy Music Production
Treehouse
UCDS
Unfollow Media LLC
United States Congress
United Way of King County
University of Washington
University of Washington Botanic Gardens
Valve Corporation
VOXA
Washington Attorney General's Office
Washington Trails Association
WONGDOODY
World Affairs Council of Seattle
Yes on 1631
ZGF Architects

Study Skills is a small group, fee-based, elective class. To enroll as a new student in this class, parents meet with the Director of Learning Support to determine if placement is desired. Once a supplemental contract for Study Skills has been signed, a student is scheduled into a Study Skills class. Students receive support for executive functioning, as well as additional content support. Study skills are taught in the context of the content curriculum from students' core academic courses. As with all electives, students receive an elective credit and a grade for this class and students can take it for multiple trimesters.

What does the Study Skills class look like?

The class meets during one of their elective blocks. The classes are typically organized around the same grade level but occasionally the grades are mixed if the priority is to have a student with a particular Study Skills teacher or in a specific block.

Students work on individually identified goals based on their own specific learning profile, but the group setting allows them to work collaboratively on similar assignments or learn different strategies from peers. Initial emphasis is on developing habits for tracking assignments, time management, willingness to ask for and accept help, and metacognition. Once students have established regular habits around turning assignments in on time, higher order study skills are introduced. Rather than a separate study skills curriculum (i.e., stand alone unit on note taking or mnemonic memory strategies), students are learning to apply these skills to their coursework from their content area classes. While Study Skills teachers can help support students in their content area classes, the class does not provide basic skill remediation, and Study Skills teachers are not necessarily content area specialists across subjects.

What else does the Study Skills teacher do to support students?

The Study Skills teacher serves as an advocate for the student in helping them navigate their accommodations and communications with their teachers. Study Skills teachers work closely with classroom teachers so they know what the assignment expectations are and can help the classroom teacher better understand the student's learning profile. The teacher also has regular communication with parents around assignment completion and progress.

Who is Study Skills for?

Students who typically enroll in a Study Skills class are ones who benefit from high frequency, individualized support for a variety of reasons:

- Students who need help with organization and time management
- Students who need help with managing stress
- Students with specific learning differences who need help in learning how to utilize their accommodations and developing individualized learning strategies to work around their specific areas of challenge
- Students who need help with making connections in the curriculum or need more guided practice in doing reading, writing, or math assignments
- Students who are waiting for developmental maturity to catch up and need help managing expectations of a fast paced and demanding academic environment

Please contact **Megan McCall, Director of Learning Support,** if you have questions or are interested in learning more about the program.

CALENDAR OF AFTER-SCHOOL ACTIVITIES

Below is a listing of activities that are offered after school. **In creating one's schedule, it is important for students to note that the schedules for the after-school activities in the chart below overlap and conflict with each other, so students need to choose one activity per season.** Questions about individual options or conflicts should be directed to the Athletics Director and/or Head of the Arts Department.

Please note information below the table with details about participation and auditions/turnouts.

FALL	WINTER	SPRING
Fall Musical	Robotics	Robotics Continues
Girls' Soccer	Winter Production	Underwater Robotics
Girls' Volleyball	Vocal Ensemble	Spring Production
Boys' Tennis	Basketball	Boys' Soccer
Boys' Golf	Wrestling	Boys' Lacrosse
Boys' Ultimate Frisbee	*After-School Clubs:*	Girls' Lacrosse
Cross Country	*Squash & Climbing*	Girls' Tennis
		Girls' Golf
		Girls' Ultimate Frisbee
		Track and Field

Participation and Excellence

All programs represent the school's philosophy of Participation and Excellence. Certain arts programs have auditions and sports teams have turn-outs for placement, to ensure that all students have access to programs and can participate at their appropriate level. In the arts, for example, there are advanced, intermediate, and beginning levels, and sports teams have varsity, junior varsity, and additional teams when needed.

Earning Credits

- PE credit can be earned by participating in the after-school sports on the chart above. Sports that are part of SAAS clubs (for example, Squash club or Climbing club) do not typically support enough hours in one trimester to earn PE credit.
- Arts credit can be earned by participating in after-school performances on the chart above.

Arts Auditions

(See Appendix D for more specific Arts Audition information.)

- Auditions for fall and winter trimester Theater productions occur at the beginning of the trimester in which the show is scheduled. The "Spring Production" is open only to Advanced and Intermediate Acting classes.
- Auditions for Advanced and Intermediate levels of the Vocal and Instrumental Music, Theater, and Dance programs occur in spring trimester for the following year.
    - The Advanced and Intermediate levels of arts programs meet during the school day.
    - Advanced Dance also has an after-school commitment for choreography and advanced technique.

2020-2021 COURSE DESCRIPTIONS

ALPHABETICAL BY DEPARTMENT

Not all electives listed will be offered each year as determined by interest and staffing availability.

Arts

Graduation Requirement for Classes of 2021 and Beyond:
7 credits, must include at least one credit each of Dance, Visual, Theater Arts, and Music.

Artistic endeavors require the development and integration of the following four complex skills and processes. The first is engagement. In this phase, students become acclimated to the creative environment and begin to recognize and exercise their natural creativity. Second is the development of vocabulary and technical skills. Vocabulary both supports the student in dialogue with artists, peers, and teachers, and begins to shape a world view in which the arts is in an integrated element. The development of technical skills allows students to excel in artistic expression. Third is performance and exhibition. Students must be able not only to apply the skills that are required but also to integrate these skills into the creative process. Fourth and last is evaluation and reflection on both the product and the process. Students must have the critical skills both to assess their own individual development and provide constructive feedback to peers.

Dance

The following courses satisfy the dance distribution and qualify for arts credit. Extra dance credits can count towards PE credits, and once those are complete, towards elective credits.

Ballet

One trimester. Open to grades 9-12.
This course explores the art of ballet. Students learn the basic concepts and principles of ballet. They study and practice basic dance technique, i.e. proper alignment and centering of the body, rotation and isolation of body parts, movement, and ranges. Students explore musical phrasing and rhythm. They develop a basic vocabulary of connective steps and learn to perform them in a variety of patterns. Students will learn techniques for memorizing choreography and develop appropriate performance skills. Students are evaluated on classroom participation and performance, along with their final execution of set choreography. No prior experience required.

Dance for Musical Theater

One trimester. Open to grades 9-12.
This course studies the contributions the art of dance makes in the world of musical theatre. Students explore how dance is used as a tool in order to promote the story line of the musical. In addition to taking an in-depth look at the dance used in classic musicals, the class explores how different styles and techniques lend themselves to certain types of musicals. Students learn basic dance technique. They learn how to translate these movements into acting scenarios. They learn how choreography is constructed as well as how to memorize it. The class presents a finished musical number at the end of the trimester.

Introduction to Jazz and Modern Dance

One trimester. Open to grades 9-12.
A beginning level class that will focus primarily on jazz and modern dance techniques. Jazz dance includes rhythmic footwork, sharp and stylized movements, and draws from other dance styles including hip-hop, ballet, and social dance. Modern dance focuses on moving the whole body with a sense of efficiency and full range of motion. Throughout the trimester, students will learn a variety of movements that incorporate rhythm, coordination, and making clear shapes with their bodies. They will also work on dancing with a sense of dynamic range, and on making it clear to the observer where in the body a

particular movement originates. The class structure includes a thorough warm-up, exercises that move across the floor, and learning a longer piece of choreography.

Dance Program

Placement by Audition

Intermediate Dance

Two trimesters: Winter & Spring.
Open to grades 9-12, by audition.
Intermediate Dance is a two trimester course. Classes will focus on dance technique in a variety of idioms including but not limited to: ballet, modern, jazz, contemporary, hip-hop, and musical theater dance. Throughout the year, students will also work on fine-tuning their technical and artistic skills with challenging movement material that is presented at a rapid pace. Rehearsals for the Dance Showcase and other performances allow students to focus on the performing aspect of being a dancer. Auditions will be held in the spring.

Intermediate Advanced Dance

Yearlong course.
Open to grades 9-12, by audition.
Intermediate Advanced Dance is a yearlong course. It is designed for the more serious dance student who has taken at least one or two trimesters of an introductory dance class or who has had some outside dance experience. Students should be interested in more detailed training and gaining additional performing experience. Auditions will be held in the spring.

Advanced Dance

Yearlong course.
Open to grades 9-12, by audition.
Advanced Dance is a yearlong course. It is designed for the more serious dance student in order to provide intensive training in addition to multiple performing opportunities. There will be an after-school component to Advanced Dance for choreography. Auditions will be held in the spring.

Music

The following courses will satisfy the music distribution and qualify for arts credit.

Beginning Vocal Music

One trimester. Open to grades 9-12.
Students receive an introduction to solfege and rhythm skills that they will use throughout their singing career at Seattle Academy. Using a combination of written and on-line resources, they will apply these skills to three to four pieces of music. Students will study basic voice technique. Students may perform at the end-of-trimester performances.

Digital Music Production

One trimester. Open to grades 9-12.
Students will work together to compose and record original music. Class meets in a studio setting where students have access to digital audio workstations, a mixing console, and recording equipment, to produce and record their songs. The curriculum will cover song composition, basic audio engineering, music theory, and more.

Vocal Performing Groups

Placement by Audition

Vocal Revue

Spring trimester.
Open to grades 9-12, by audition.
Vocal Revue students will study basic voice technique. While the course is relatively casual, the performance goals for the class are high, and Vocal Revue has a one-night show.

Vocal Ensemble

Winter Trimester.
Open to grades 10-12, by audition.
Vocal Ensemble is a one trimester class, **after school,** graded Pass/Fail. The Vocal Ensemble will put on a show in February. Students will study voice technique, and the performance standards are high. A placement audition is required, and auditions are held in the spring.

Jazz Choir III
Two trimesters: Fall and Winter.
Open to grades 9-12, by audition.
Jazz Choir III is a two-trimester class which performs at school and festival events. Jazz Choir III focuses on solo and group repertoire from the jazz idiom. While this is the beginning level of our Jazz Choir sequence, expectations in this group are high and require regular homework. Auditions for this group are competitive and are held in the spring.

Jazz Choir II
Two trimesters: Fall and Winter.
Open to grades 9-12, by audition.
Jazz Choir II is a two-trimester class. This group performs regularly at school and at the Bellevue Jazz Choir Festival. Jazz Choir II focuses on solo and group repertoire from the jazz idiom. Expectations in this group are high and require regular homework. Auditions for this group are competitive and are held in the spring.

Jazz Choir I, "The Onions"
Yearlong course.
Open to grades 9-12, by audition.
Jazz Choir I is a yearlong class. This group performs regularly at school and community functions, at the Reno Jazz Festival, and they have an end-of-year concert. "The Onions" represent the best in Seattle Academy vocal music, and therefore will maintain the highest of musical standards. Auditions for this group are competitive and are held in the spring.

Instrumental Music
Placement by Audition

Jazz Ensemble I & II
Yearlong courses.
Open to grades 9-12, by audition.
The SAAS Instrumental Jazz Ensembles are yearlong classes, with both intermediate and advanced instrumental levels. While focusing on a variety of musical styles, the groups work to develop solid skills in performance technique, sight-reading, self- and group-evaluation, and improvisation. Both ensembles are performance classes and play two evening concerts a year, at end-of-tri performances, sports manias, traveling competitive festivals, and other special events. Placement in ensembles is made through an audition in the spring and is subject to the instrument needs of each group. Previous playing experience of at least one year is highly recommended, but accommodations can be made for beginners taking private lessons.

String Ensemble
One Trimester or yearlong. Open to grades 9-12, by audition.
String Ensemble is a course for intermediate to advanced level string players (violin, viola, cello, bass). The focus is mainly on playing classical chamber music and learning the skills to be a good ensemble player. The repertoire chosen will address the skill level of the group as a whole to develop a cohesive group sound and produce an accomplished end of trimester presentation. We will explore and learn chamber music skills such as verbal and non-verbal communication, ensemble techniques, musical expression, sight reading, and performance skills.

Theater Arts
The following courses satisfy the theater arts distribution and qualify for arts credit.

Beginning Acting
One trimester. Open to grades 9-12.
Students will explore basic aspects of character creation: improvisation, expression, voice, diction, projection, and interaction. They will research and select a scene, with partner(s), from a known work of theater. They will learn how to prepare a scene from prewritten material and bring a character to life from that material. The class will culminate with a public performance of their scenes. This class is a prerequisite for other theater arts classes.

Improvisation
One trimester. Open to grades 9-12.
Students will learn the techniques of acting without prepared text. The class uses techniques derived from Viola Spolin, Theater Sports, Keith Johnstone, and others. Students will learn to make offers, develop characterizations, and be

required to perform on a daily basis. This class satisfies the prerequisite for other theater arts classes.

Costume Design
Spring trimester. Open to grades 9-12.
We generally think of a costume as something that is worn for a performance or Halloween, but the term actually refers to dress in general. Each of us puts on a costume every day when we get dressed, because the clothing we wear tells the world about us—where we come from, what we think, and what is important to us. In this class we explore what can be communicated with clothing both in the world of entertainment (theatrical costumes) and in our everyday lives (fashion). Students will explore ideas about visual communication as they relate to dress through research, class discussions, and hands-on projects completed in half scale. Basic sewing and pattern drafting and draping will be taught to facilitate the expression of one's ideas.

Mask Making
Spring trimester. Open to grades 9-12.
Students in this class explore the role of the mask in both character development and performance. Students will begin with the development of individual life masks, then move on to character masks, and finally to exploration of physical acting using masks.

Musical Theater
Winter trimester. Open to grades 9-12.
This course is designed to give students a general introduction into the world of musical theater. Students will explore basic concepts and principles of musical theater and will learn how to combine the components of music, dance, and drama to create a finished musical theater number. This course is team taught with a musical director and a choreographer/director. Musical Theater can count as a Music or Theater credit.

Playing Shakespeare
One trimester. Open to grades 10-12.
"All the world's a stage, and all the men and women merely players." Shakespeare's plays were written to be performed! This class will explore the tools and techniques actors use to bring Shakespeare's text and characters to life. Students will use the fundamentals of acting and dramatic text analysis to unlock the meaning and underlying action of Shakespeare's words. Students will apply what they've learned to monologue and scene work. Particular attention will be placed on the role that the body, voice, and imagination play in releasing Shakespeare's power and complexity in performance.

Sketch Comedy TV Writing
One trimester. Open to grades 9-12.
Students will learn proper formatting techniques for a half-hour situational comedy. They will explore story structure, character development, and joke writing. Students will learn to write story pitches, episode pitches, create outlines, and write dialogue. Various scripts from actual television shows will be read, watched, and analyzed. The class collaborates on writing a half-hour episode of a TV show that has been developed over many years at Seattle Academy

Stage Combat
Spring trimester. Open to grades 9-12
Stage combat is an artistic presentation of violence in a theatrical environment. It is violence based on the principles of reality, masked by specific techniques that make the actions safe for the performers, and perceived by an audience as reality. The choreographed piece is designed to enhance and continue the narrative of a theatrical event. The class will focus on use of physical acuity and development of sword techniques.

Technical Theater and Design
One trimester. Open to grades 9-12.
This class will function as an introductory survey of stagecraft and will walk students through the major design forms of set, light, sound, and costume. Elementary drafting, model work, and a study of the historical development of the technical aspects of dramatic art are all studied. Students need to serve on the technical crew for one SAAS theater show during the course of

the trimester.

Acting Program

Placement by Audition

Intermediate Acting

Two trimester class: Fall & Winter.
Open to grades 10-12, by audition.
Intermediate Acting focuses on developing ensemble techniques, basic scene study, and an introduction to emotional exploration for the actor. Students will work on the development of a short theatrical piece during the second trimester. Intermediate students are also eligible to audition for the Spring Main Stage production.

Advanced Acting

Yearlong course.
Open to grades 10-12, by audition.
Advanced Acting students will explore a deeper, more serious level of character creation. They will explore their inner landscape, personal obstacles to expression, and deep emotional character work. The class focuses on a monologue of the student's choosing. The work will focus on the exercises of Jerzy Grotowski, Stephen Waugh, Sanford Meisner, Ethel Eyler, and Warren Robertson. Auditions for this class are held in the spring.

Visual Arts

The following courses will satisfy the visual arts distribution and qualify for arts credit. (Note: Beginning Studio Arts is a prerequisite for other visual arts classes, excluding film classes.)

Beginning Studio Arts

One trimester. Open to grades 9-12.
A beginning visual arts course with the goal of creating student confidence and knowledge in a wide variety of media with the focus on fundamental skills. This course emphasizes a study of the Elements of Principles of Design. Creativity and personal voice are explored during this course and students will have the opportunity to reflect upon and discuss their work. Process Journals will be used to research, to explore techniques, and to practice. This class is a prerequisite for other visual arts classes, excluding film classes.

Studio Arts

One trimester. Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
This is a one-trimester course and open to all students who have taken Beginning Studio Arts. Students will study and create artwork with the Elements of Principles of Design, enhancing their skills in life drawing, painting, and printmaking. Topics vary, and 2-dimensional, and 3-dimensional artwork will be explored. This course can be repeated multiple times.

Intermediate Studio Arts

Two trimesters: Fall & Winter or Winter & Spring.
Open to grades 9-12.
This course is for students who have had Beginning Studio Art and are looking to further develop their skills with advanced projects such as observational and experimental drawing, painting, printmaking, mixed media, and textiles. Process Journals will be used throughout the trimesters to research, explore techniques, practice, and document the artistic process. Students will also develop a body of work to start the process of creating a portfolio. This course is a requirement prior to taking Advanced Studio Arts.

Portfolio Development

Spring Trimester. Open to grade 11.
Prerequisite: Beginning Studio Arts & portfolio review by the instructor.
Portfolio Development is designed specifically for juniors and seniors who are interested in building a portfolio to prepare for art schools and/or for a supplemental portfolio. Students will work on a series of works and conceptual ideas, and they will strengthen techniques and skills and apply those to existing work. The course will include regular critiques, as well as documenting one's work digitally and uploading images to a drive, blog, or website portfolio. Portfolio review by the instructor is required to enroll in the Portfolio Development Class.

Advanced Studio Arts

Two trimesters: Fall & Winter. Open to grade 12.

Prerequisite: Portfolio review by the instructor.
Students in this class are developing a portfolio of work for college admissions. A portfolio of student work should demonstrate a mastery of basic skills as well as student voice. A portfolio is a visual document of a collection of a student's artwork representing the variety and quality of their capabilities as an artist. Students will be required to submit a portfolio in October for colleges, competitions, and supplemental portfolios. Students will continue to refine their portfolios throughout the year by exploring new mediums, skills, and a body of work for the spring art show. Process Journals will be used throughout the year to research, explore techniques, practice, and document the artistic process. Portfolio review by the instructor is required to enroll in Advanced Visual Arts.

3D Studio Arts
One trimester. Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
In this studio class we will explore three-dimensional design from concept to form. We will work with assemblage boxes, found-object transformations, cardboard, and paper and wire sculpture, to name just a few mediums. Students will create free-standing objects, working individually and in small groups. Past projects have included articulated figures, topographical paper portraits, and architectural models.

Ceramics
One trimester. Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
Students will explore hand-building, focusing on low-fire clay for sculpting. Basic techniques will be covered, creating a foundation for this artwork. We will discover ceramic artists locally and internationally through a variety of avenues, including visiting artists, gallery and museum visits, videos, and slides. We will include various cultural traditions of clay through history, as well as contemporary work. Students will also have the opportunity to use the wheel. As long as humans have been on earth, they have worked with clay both for the joy of expression as well as to satisfy utilitarian needs. Discover this ancient creative process and your creative possibilities!

Fiber Arts
One trimester: Fall or Winter.
Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
In this class we will be exploring all things fiber, with a twist! The goal is to expose you to as many different kinds of materials as possible, while at the same time pushing you to think conceptually about how you are using them. We will therefore be using traditional materials in non-traditional ways and non-traditional materials in traditional ways. Projects will include felting, weaving, shibori resist (a Japanese technique of embellishing textiles by shaping cloth and securing it before dyeing), embroidery, sewing, textile design, and dyeing.

Sculpture
One trimester. Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
In this repeatable course we concentrate on the proficient and safe use of many studio/shop tools and explore the most prevalent three-dimensional art-making techniques. They are: Reduction (carving,) Fabrication (assemblies), and Casting (multiples from molds and poured liquids.) Using influences mostly from post-WWII Western artists, students can execute works in wood, stone, steel, aluminum, copper, fiberglass, plaster, concrete, and potentially, some thermoplastics. A partial list of the tools used in this course includes chisels and knives, rasps, sanders, drills, grinders, and saws.

Media Arts

The following courses will satisfy the visual distribution and qualify for arts credit. Media Arts courses have limited enrollment due to space and distribution of equipment. Students interested in Media Arts classes will be selected in consultation with the teachers, based on enrollment numbers, arts requirements, and individual student schedules.

Film
One trimester. Open to grades 9-12. No prerequisite.
Pointing and shooting video with a cell phone is fun. But taking that to the next level to produce eye-popping, meaningful productions that wow your

friends and other audiences is what film classes at SAAS are about. Beginning Film is a production-oriented class designed to introduce students to the film-making process and provide them with the knowledge and tools needed to produce a short film of their choice by the end of the trimester.

Advanced Film
Two trimesters: Fall & Winter.
Open to grades 10-12.
Prerequisite: Film and Instructor Review.
Advanced Film is a production-oriented class with more emphasis on understanding the technical aspects of film: lighting, cameras and lenses, editing equipment usage, etc., all aimed at giving students maximum control and ability to express their own vision through film. The class will meet one or two trimesters. The focus of the class may change from trimester to trimester, based on student need, and taking up various topics related to the production of different film genres, including narrative, documentary, animation, new media, etc. Students will be required to produce a short film by the end of the last trimester, either in small groups or individually, and utilizing the techniques discussed in class. Other projects conducted during class time may occasionally require extra out-of-class time as well. A timetable will be set with each student or group to assure progress is being made on each film project as the trimester progresses.

Film Animation
Spring trimester. Open to grades 9-12.
No prerequisite.
Ever look at a moving image on TV or at the movies that defies reality and ask "How did they do that?" In this class we will explore some of the ways animation brings still images to life, whether they start out as hand drawn pictures, lumps of clay, Lego pieces, real live people, or even computer generated shapes and characters. We will view many animated works and discuss the techniques used to create them. Then, working together as a class, individually, and/or in small groups, we will use time-honored manual techniques and learn to use computer programs like Photoshop, Motion, After Effects, and Final Cut Pro to create our own short animated films. This class is open to all levels of filmmakers.

Film Appreciation
Spring trimester. Open to grades 9-12.
No prerequisite.
Learning how to read a film turns passive TV, movie, and other media viewing on its head. By becoming aware of the production elements of a film—camera movement, composition, lighting, and sound—we become active participants in the media experience. We begin to appreciate watching films on a new level, choosing how and what we want to be influenced by in the film's attempted manipulations. During this one-trimester class we watch films and discuss how the filmmaker edits the elements of image and sound together to create the effect they want to achieve. Then, during the second half of the trimester, we will try our hand at shooting some footage ourselves and experiencing the editing process, employing what we have learned from our observations.

Film Documentary
Winter trimester. Open to grades 9-12.
No prerequisite.
Did you know that when you take pictures or videos of friends you are making a documentary? We are in the age of the documentary. With the use of computers this film form has exploded to include all kinds of creative techniques. Similar to Beginning Film, in this class we learn the basics of film making as we focus on the documentary film form. Learn while creating documentaries of your friends, family, places, events, or larger world issues that are important to you.

Graphic Design and Typography
One trimester: Winter or Spring.
Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
This course combines studio work with classroom instruction, demos, and field trips. Students will experience an introduction to the visual principles and fundamentals of graphic design as they relate to line, form, color, icon & logo design, and typography. The history of graphic design and visual communication will

also be covered, as well as a look into the way visual media and design has permeated and affected the cultural atmosphere, both in America and Internationally. Students will develop hands-on drawing, sketching, and crafting skills, as well as learn basic digital-based skills using Adobe software to produce their final projects incorporating text and image, including book or CD album covers, posters, and more.

Photography: Digital
One trimester. Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
Combining modern technologies with traditional photographic theory, students will use digital cameras to create color and black & white photographs, building a language of visual literacy. Classes will consist of lectures, demonstrations, field trips, and group critiques. Through introductory assignments, students will learn basic camera operations, and explore elements and principles of design as they relate to photographic composition. In the "digital darkroom," students will learn basic image editing using Adobe Photoshop software. Students will be given weekly photography and reading assignments and will create a final photography portfolio by the end of the trimester. Students may use their own digital camera that has manual controls for aperture and shutter speed, or they may check out a school camera.

Photography: Black and White
One trimester. Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
This is an introduction to black & white film photography designed to teach creative visual expression through photography, learning manual camera operations and traditional film development, and printing in the darkroom. Elements and principles of design will be explored as they relate to photographic composition. Classes will consist of lectures, demonstrations, group critiques, and supervised lab work during class time. Students will be given weekly photography and reading assignments. Students may use their own SLR 35mm film camera that has manual controls for aperture and shutter speed, or they may check out a school camera. Students will also learn to scan prints and film to create a digital record of their work.

Photography: Experimental
Spring trimester. Open to grades 9-12.
Prerequisite: Beginning Studio Arts.
In this modern technological age, more and more artists are returning to historic, hands-on processes to discover the beauty and magic of light-based image making. The focus of this class is to explore unusual, historic, and experimental methods of creating photographic images. Through an intensive hands-on approach we will cover simple camera creation, film exposure and development, darkroom procedures, and an introduction to the history of photographic image-making. Students may explore historical image-making techniques including cyanotypes (blueprints), pin-hole camera and toy camera use, and mixed media digital/film combinations. Creativity, personal expression, and exploration are key in this class. During class there will be lectures, demonstrations, slide shows, discussions, and critiques to encourage students to explore the potential of the medium. Students will have weekly reading assignments, as well as weekly shooting and printing assignments.

Advanced Photography
Two trimesters: Fall & Winter. Open to grades 11-12, priority goes to seniors.
Prerequisite: Black & White Photography and Digital Photography as well as instructor portfolio review.
In Advanced Photography, students will continue work to develop and refine their own photographic portfolio, explore fine art printing and presentation techniques, and prepare work for a professional group show. The class is designed to further students' understanding of visual language and to explore visual and conceptual concerns in contemporary photography as they relate to their own work. Students will learn studio lighting techniques for portrait and still life photography as well as on-location shooting. Advanced readings, demos, field trips, studio tours, and critiques will occur. Students may work

with Film or Digital photography depending on which media is appropriate for their work. We have school cameras, lighting, and advanced studio equipment to use during class and available for checkout.

Computational Thinking

Graduation Requirement for class of 2021: 1 credit (one trimester required in the 11th or 12th grade years).

Graduation Requirement starting with class of 2022: 2 credits (one trimester required in 10th grade; one trimester to be taken during the 11th or 12th grade years).

Computational Thinking 10
One trimester. Grade 10. Required.
Computational Thinking involves solving problems like a computer scientist - identifying different possible solutions to a particular problem and selecting elegant, effective, and efficient strategies. Given technology's important role in our lives, it is essential for all students to develop computational literacy. Students in this trimester course will learn general computational thinking concepts including the four essential ideas of problem decomposition, recognizing and using patterns, abstraction, and algorithms as programmatic solutions to problems. Students will then learn introductory programming concepts in a text-based programming language such as Python and complete example projects. The course will conclude with an examination of the basics of artificial intelligence, including an overview of how it works, potential applications of this technology, and ethical concerns in its development and deployment. Prior programming experience is not required.

Computational Thinking: Machine Learning, AI, and the Future
One trimester. Open to grades 10-12.
Machine learning, automation, and artificial intelligence are technologies that already have dramatic effects on our daily lives, and will continue to impact them in challenging ways –from recommending our music, targeting our advertising, and managing our money to driving our cars. In many ways these technologies will change the nature of work in many fields. This trimester course will explore the technologies behind the hype to develop an understanding of how they work, where they are headed, the ethical issues raised by them, and how to navigate a changing world. Students will complete demonstration programming projects, read primary literature, and engage in discussion. Prior programming experience is not required.

Computational Thinking: Dealing with Data
One trimester. Open to grades 10-12.
Dealing with data is one of the most important aspects of making progress in any field– from science to business to journalism. Understanding the world requires understanding and manipulating data. Students in this class will learn a popular open-source programming and data analysis software system that will enable them to explore, make inferences, and visualize data sets in informative ways. Skills learned in this class will be widely applicable to many fields of study and future careers. Prior programming experience is not required.

Computer Science Principles
One trimester. Open to grades 9-12.
This course will focus on three main topics in Computer Science. Abstraction is the practice of modeling phenomena or systems in a computer that allows for generalization of the problem. Data and information is a central part of computing and this course will expose ways to bring in data sets so that they can be analyzed efficiently. Algorithms are the heart of computing and students will be exposed how to design, implement and test algorithms.

Science of Robotics
One trimester. Open to grades 9-12.
By the end of this course, students will be able to design, build and program a robot. They will learn project management and collaboration skills as they work together to carry out the design process. Content will include the foundational mechanisms and functions of robots, communication through basic

programming, use of handheld and power tools, and integration of mechanical and electrical systems. Students of all grades are welcome to take this course and can approach the material from many different levels and backgrounds.

Software Development
One trimester. Open to grades 9-12.
Software Development is a course where students work on the cutting edge of new technology. Students will develop interactive software and web applications using Java Script, Python, XHTML, CSS, SQL databases. Because of the laptop program, our focus will be on the design of software that is actually used by the school community and other educational environments rather than just dealing with the theory of software design. Programming experience is not required, but a demonstrated commitment to maintaining one's computer in working order is essential. Software Development can be counted towards the math/science requirement. As topics vary, students may take Intermediate and Advanced Software Development in subsequent years and continue their progress in the field. This course is offered to students as an honors option on a trimester basis.

English

Graduation Requirement: 12 credits (4 years).

Seattle Academy requires students to take an English class each trimester of the 4 years. There are honors options in 11th and 12th grade. If a student fails a trimester, it must be made up in summer school.

Our curriculum is based first and foremost in writing: personal and expository essays, critical analyses, poetry, fiction, or journalism—all these modes must defend a position or communicate an idea using details and evidence, and affect the reader through the structure and language of the written piece itself. In addition to writing, the department emphasizes close reading as an analytical skill and as a means of appreciating the world's literature. Performing knowledge in demonstrations and presentations is also vital to students developing confidence and character and, therefore, also a major component of curriculum and assessment at all grade levels. Finally, we understand that not all students learn alike, so we strive to recognize areas of progress in individual students and to identify areas for improvement, which will help each student excel in college and in life.

English courses in 9th and 10th grades, while independent from the history courses, use a humanities approach and take into consideration the study of history when selecting certain texts or when designing integrated projects. Central to the school goal of providing a demanding and innovative college curriculum are the skills of reading and analysis. Students learn about the various modes, purposes, and styles of writing through exposure to a broad range of literature and learn to evaluate and develop arguments with evidence. Students also learn the technical vocabulary and research skills they need to read and analyze effectively in order to become confident interpreters of information.

In the 11th grade, students can choose to take a non-integrated English course with an honors option, or an honors-level, integrated (English and History) American Studies course. In all 11th grade courses, students study American literature to accompany their study of U.S. history and, through reading and writing for a variety of purposes and in various forms, engage dynamically with texts and write to discover the power of language and to communicate precisely.

For 12th grade students, the English department offers elective English choices each term so that students can pursue emerging interests in English. As in the eleventh grade year, students will have the option to take courses with honors designation. Those courses range from choices such as Literature and Philosophy or Creative Writing. In all upper school grades, multiple teachers might teach the same course, and each teacher's curriculum will vary given a common understanding of the core skills, concepts, and expected common assessments

9th Grade English:
Literature and Self-Knowledge
Yearlong.
This course is intended to give students a foundation in the critical reading, writing, research, and thinking skills necessary to being prepared for college and life. Through the study of literature, students explore themes related to the development of self-knowledge, ethics, identity and the individual's role in society to complement the study of Ancient History in 9th grade. Students study the different genres of literature: epic poems, short story, drama, novel, and poetry. Expository writing is emphasized, as are grammatical concepts, vocabulary development, and research skills.

10th Grade English: Modern Literature
Yearlong.
This course features literature and ideas from the early Modern era to the present day, and builds upon studies completed in 9th grade. Students in English 10 practice applying thematic frameworks to texts, events, or trends to develop their skills in critical thinking and analytical writing. Two core projects link English and History classes during the winter and spring trimesters (Salon Project and Outliers Research Paper). Overall emphasis is placed on vocabulary study, grammar practice, paragraph modeling, and research writing.

11th Grade English/American Literature (Honors Option)
Yearlong.
In 11th grade English, students examine themes and patterns found in the American literary tradition and continue to develop skills as critical readers, writers, communicators, and collaborators. Students will read in various genres, from poetry to novels and plays, and have exposure to authors past and present, including emerging voices in the American landscape. Students will also write for various purposes, from the personal essay to the analytical response, with a focus on the revision process, as well as continue to develop grammar skills and vocabulary.

11th Grade American Studies (Integrated Honors English and History)
Yearlong.
American Studies is an honors-level English and History course, which is team-taught during two blocks of the student's schedule. While many of the course's assignments and much of its content is integrated with the History curriculum, the English component of American Studies teaches students to examine themes and patterns found in the American literary experience through reading both historical and contemporary works by writers ranging from Emerson to Hurston. Students write expository and personal essays, with a focus on communicating for a real reader; study to develop vocabulary and grammar skills; and perform in both individual and collaborative and intensive group presentations.

12th Grade English: Elective Seminars
One trimester each.
During the senior year, students take three distinct, trimester-long courses on topics ranging from Philosophy and Literature to Creative Writing. Each course aims to prepare students for English at the college level, focusing on critical reading, as well as communicating and writing with attention to the audience. Students have the option to take courses at the standard or honors level.

Entrepreneurship & Design

Graduation Requirement starting with class of 2021: 2 credits (one trimester required in 10th grade; one trimester to be taken during the 11th or 12th grade years).

Innovations courses provides students opportunities to use creativity and practical intelligence to solve emerging real-world problems. We aim to equip students with various problem-solving approaches that emphasize the skills needed to thrive in an ever-changing professional landscape. Based in the design-thinking mindset, Innovations courses are

collaborative, experimental, iterative, and fundamentally human-centered.

Innovations 10: Curiosity
One trimester. Required.
Students will be pushed to learn through failure as they discover their individual learning preferences and work practices. After being introduced to project management, time management, and organizational tools, students will complete a self-guided project within a class theme. They will develop a plan and project proposal and will have frequent check-ins with the teacher as well as their peers to gain feedback. This course is meant to allow students to explore their passions while identifying the ways they best learn, develop tools to manage work, and ultimately become self-directed learners.

Building a Business
One trimester. Open to grades 9-12.
Do you enjoy watching Shark Tank on repeat? Have you ever dreamed of running your own business? Do you have an idea that solves a problem that's never been done? This is your chance. Build a Business will offer students the hands-on opportunity to plan and execute their own business ideas. Throughout the course, students will learn basic business principles, identify a potential problem and market opportunity, develop a prototype of their product or service that solves a problem, craft an executive summary, develop a full business plan, and present to a panel of judges from the Seattle entrepreneurial community. The judges will have the opportunity to provide feedback and advice. Similar to the open market, to be successful, you will need self-discipline, creativity, persistence, and drive. We will focus on learning how to fail and fail fast - through quick iteration and production development steps, your ideas will be shaped into potential businesses. Critical thinking, persistence, time management, and project execution are key to creating a thriving business. Are you ready to build your first business?

Designing Election Week
Fall trimester. Open to grades 11 & 12.
Elections have become contentious, polarizing events in our society, and the 2016 presidential election was a particularly difficult experience for many school communities. Can Seattle Academy learn from those experiences? Specifically, how might we design election week to foster dialogue, constructive disagreement, and empathy without silencing voices or forcing artificial agreement? Using the principles of human-centered design, students will engage in research to understand how others experience the political process, prototype ways to make election week a positive event for the Seattle Academy community, and implement programming in the upper school community before, during, and after the November general election.

Disruptive Innovation
One trimester. Open to grades 10-12.
In order to successfully develop truly innovative solutions, technologies, companies, and organizations, the traditional creative, business, and management models need to fundamentally change. The course will focus on the difference between "sustaining innovation" which merely creates a new product in an existing market, as opposed ti "disruptive innovations" which create new markets, needs, and add-ons never previously considered. Each week we will examine a brand new disruptive innovation and consider its effect on future development. We will examine what new set of skills, qualities, and structures are needed to develop or react to disruptive technologies and concepts.

Entrepreneurship for Social Good
Winter trimester. Open to grades 10-12.
How do entrepreneurs use design to understand human needs and encourage actions and purchases? How can those insights lead to compelling products and experiences? What makes a business model sustainable? In this course, students will use design research to identify consumer needs, use prototyping skills to develop possible new products and experiences, and learn to use a Business Model Canvas to develop viable new businesses. All participants will be challenged to meet at least

one of the five criteria for B Corp certification, thereby demonstrating positive social impact as well. The final presentation of learning will involve pitches to a panel of local entrepreneurs.

Entrepreneurial Leadership
One trimester. Open to grades 11 & 12.
Effective entrepreneurs and leaders are self-aware, empathetic, and have an ability to connect with others from different backgrounds. They possess the ability to understand key motivational strategies and to communicate effectively in order to create a lasting impact. Entrepreneurial Leadership aims to build a foundation of strong leadership for all students and to deepen their understanding of themselves as citizens of the world. Together, we will investigate the various ways to create and build value within both the personal and professional landscapes along with how great leaders are able to incite positive action. Through direct interaction with current research and literature in the fields of business and leadership development, socio-emotional intelligence, and bias awareness, students will develop the mindset necessary to contribute in our SAAS community and in the greater world. Notable assignments such as the $2 Challenge will enable students to grow their emotional intelligence, perseverance, risk-taking, and resilience both in and out of the classroom.

Intro to Engineering
One trimester. Open to grades 9-12.
Introduction to Engineering is a project-based course in which students explore the design process through doing. Students will learn the concepts of the engineering process by designing and building solutions to a series of real-world problems. They will learn how to plan and document their designs as well as how to use the tools in the machine shop to prototype and test their solutions.

Sustainability
One trimester. Open to grades 9-12.
Personal, local, and national sustainability are wicked problems with cultural, social, economic, and technical facets where, "each attempt to create a solution changes the understanding of the problem." Wicked problems "cannot be solved in a traditional linear fashion, because the problem definition evolves as new possible solutions are considered and/or implemented." As a class, students will explore the application of systems, chaos, and complexity theories to a range of wicked problems. As small groups, students will identify and address a problem of their choosing. They will document their work using models and intellectual journals.

Financial Literacy

Graduation Requirement starting with class of 2021: 2 credits (one trimester required in 10th grade; one trimester to be taken during the 11th or 12th grade years).

10th Grade: Financial Literacy
One trimester. Required.
Students explore real-life scenarios through projects and activities and develop a foundation of financial literacy. Students learn the power of financial planning, both for the short and long term: how to create effective budgets, how to make wise decisions about savings, spending, and credit/debt, how to calculate and understand the time value of money, and how to utilize the power of investing and compounding interest. Students gain an understanding of how credit cards, mortgages, and stocks fit into this picture, as well as provide a baseline understanding of the principles of supply & demand.

Investments
One trimester. Open to grades 11 & 12.
Investments is a trimester-long survey course with a focus on topics including investment strategy, portfolio diversification, and optimization, as well as assessing investment management and performance. The class places great emphasis on problem-solving, reasoning, representing, connecting, and communicating financial data.

Economics
One trimester. Open to grades 11 & 12.

History of Recessions
One trimester. Open to grades 11 & 12.
Recessions aren't random events. They are part of economic systems and cycles, they have root causes, are tied to economic and political drivers as well as environmental and social dynamics. In this course, we'll examine numerous examples of recessions, economic downturn, and collapse from a variety of eras and industries. Students will hear from financial professionals and entrepreneurs about their experiences dealing with financial crises in recent history, and will utilize case studies to explore specific examples. Through research and discussion, the class will gain the tools and knowledge necessary to prepare them to understand the cycles and dynamics that often lead to recessions, and will make good financial choices in a changing economy.

Personal Finance
One trimester. Open to grades 11 & 12.
Personal Finance is the study of practical economic and financial concepts that are designed to educate and equip students with the tools necessary to navigate the modern world. Like it or not, people of all ages need to be more than simply financially aware. To survive and thrive today, one needs to know how to make and keep track of money in and out of college, how to plan for the short-term, medium-term, and long-term, how to save and invest, how to borrow money wisely and (hopefully) pay it back quickly, and how to make decisions rationally based on what's important to you. We'll look at budgeting, getting ready for college, understanding credit and debt, planning for that big purchase, and looking down the road at home-buying...and even saving for retirement! Personal Finance will also focus on the vital importance of interest rates, compounding, and taxes. The culminating assignment is the Stock Market Project (SMP) where each student chooses a company stock, analyzes its market, numbers, and competition, and makes a recommendation: "Is this stock a good investment?"

Health

Graduation Requirement starting with class of 2021: 2 credits (one trimester during 9th grade year; one trimester during 11th or 12th grade years).

9th Grade Health
One trimester. Required.
The Health 9 course is a trimester course that informs and promotes an understanding of emotional, social and physical health issues. We do so by using information and approaches from the social and biological sciences, critical analysis about the media, and guided opportunities for self-awareness and self-reflection. We want students to understand their own decision making process and the impact of those decisions on their individual health, and to explore the many ways they can make decisions that positively impact themselves and their communities.

Global Health
One trimester. Open to grades 11 & 12.

Introduction to Anatomy and Physiology
One trimester. Open to grades 10-12.
See description in Science Electives section.

Endocrinology
Spring trimester. Open to grades 10-12.
See description in Science Electives section.

Psychology
One trimester. Open to grades 9-12.
See description in Science Electives section.

Advanced Psychology
One trimester. Open to grades 9-12.
See description in Science Electives section.

Yoga
One trimester.
See description in Physical Education section.

History

Graduation Requirement class of 2020: 11 credits (3 years and two trimesters).

Graduation Requirement starting with class of 2021: 9 credits and 1 additional year strongly recommended.

A fundamental belief of the History Department is that individual values are created by and exist in a historical context. To understand both the past and present, one needs to understand the context that shaped and continues to influence individual, national, and cultural values. The department emphasizes the development of specific thinking, writing, and speaking skills that help to prepare students for college and for life. These skills include the ability to research, to analyze, and to develop, articulate, and defend a thesis. All of these skills are demonstrated through a variety of assignments and projects, and they are especially showcased when students participate in the school's culture of performance in presentations made in classes. Such skills and activities help students to expand their understanding of major historical causes and effects, and they enable students to become thoughtful, active members in their own society.

9th graders take Foundations of Civilizations, 10th graders take Modern World History, and 11th graders take American History, which meets Washington State requirements for American History. Students are required to meet the state requirement for Pacific Northwest History in middle school or by taking a senior elective.

In the 11th grade, students can choose to take a non-integrated History course with an honors option, or an honors-level, integrated American Studies course. In all 11th grade courses, students study American history to accompany their study of American literature, and continue to develop skills in areas of critical reading, research, writing, and collaboration.

For 12th grade students, the History department offers elective History choices each term so that students can pursue emerging interests in History. As in the eleventh grade year, students will have the option to take courses with honors designation. Those courses typically explore topics ranging from cultural and global studies, to anthropology and politics. It is recommended that seniors enroll in History for all 3 trimesters of their senior year. In all upper school grades, multiple teachers might teach the same course, and each teacher's curriculum will vary given a common understanding of the core skills, concepts, and expected common assessments.

9th Grade History: Foundations of Civilization
Yearlong.
This course is intended to give students a foundation in the ancient world civilizations that can best put students in a position to better understand the world today. In an age of increased communication, connectivity, and globalization, it is important to understand not only the roots of Western Civilization but also the origins and major aspects of the civilizations of Asia and the Islamic world. Success in the world of tomorrow will depend upon one's ability to comprehend these multiple histories, religions, and perspectives. While our primary focus will be on the time period between 3000 BCE–1600 CE, to draw out the connection between past and present, when the opportunity presents itself we will explore links between the present day and these historical transformations.

10th Grade History: Modern World History
Yearlong.
This course emphasizes the development of western civilization from the 17th century to present, but occasionally focuses on non-western perspectives that shape, or were shaped by, western cultures. The growth of modern political, economic, and social structures in the 18th and 19th centuries is examined, covering such topics as the Scientific Revolution, the Enlightenment, and the French Revolution, and the Industrial Revolution. Included in the course are the collapse of old regimes and WWI, global politics, and the rise of authoritarianism in the first half of the 20th century, WWII, and

contemporary issues in politics, economics, and society from the Cold War to present.

11th Grade History: American History (Honors Option)
Yearlong.
In 11th grade History, students examine themes and patterns found in American History and continue to develop skills in critical reading, writing, research, and historical thinking.
The course offers an overview that focuses on a variety topics and issues including indigenous cultures, colonization and the American Revolution, the growth and expansion of the US in the 18th and 19th centuries, the Civil War and Reconstruction, the problem of slavery and the movement for civil rights, and America as a major world power in the twentieth and twenty first centuries. Students will write for a variety of purposes and audiences, including writing to incorporate research and synthesize ideas while developing original arguments.

11th Grade American Studies (Integrated Honors English and History)
Yearlong.
American Studies is an honors-level English and History course, which is team-taught during two blocks of the student's schedule. While many of the course's assignments and much of its content is integrated with the English curriculum, the History component of American Studies teaches students to examine themes and patterns of American History, and asks them to explore particular topics, including the American Constitution, the Cold War, and Civil Rights and Civil Disobedience, in depth. Students write expository and argumentative essays, including a Constitutional research paper; study to learn important historical events and terms; and perform in both individual and collaborative and intensive group presentations.

12th Grade History: Elective Seminars
One trimester each.
During the senior year, students take three distinct, trimester-long courses representing a broad range of historical experiences. Each course aims to prepare students for college-level history and social science courses, focusing on exposure to topics in history, cultural and global studies, anthropology, and politics. Students have the option to take courses at the standard or honors level.

Mathematics

Graduation Requirement: 9 credits (3 years) required. 3 credits (one additional year) of math or science required. One additional year of math and science strongly encouraged.

The Mathematics Department strives to ensure that all students are well prepared for college and life by providing the knowledge and skills to understand and function well in our world from a quantitative perspective. Specific skills include problem-solving processes, synthesizing concepts, understanding the relation of math concepts in other disciplines, and communicating solutions using the language of mathematics.
The teachers of the Mathematics Department foster a dynamic learning community in which students are asked to use mathematics in ways that go beyond computational knowledge. Real-world and hands-on applications are included in each course, and students integrate their math skills into other disciplines. These activities and projects integrate technology and are designed to communicate and explore ideas in depth from a global perspective, giving students the tools to better understand the world and make decisions as well as explore areas of student interest.
The Mathematics Department believes that all students can be successful and challenged in a math course that prepares them in the quantitative dimension needed for college and life. Students enter the school with different levels of preparation and in some cases with different developmental readiness. As a result, we offer a range of courses so that all students have the opportunity to succeed in an appropriate math class and all students are on a path to complete the math requirements needed for a college preparatory diploma.

Students must complete Advanced Algebra as a minimum requirement. In addition, students are required to complete a minimum of 3 years of math in high school and are encouraged to take a full four years. Students are required to take a fourth year of math or science.

(Please see Appendix A for a visual representation of course sequencing in math.)

Integrated Algebra 9
Yearlong.
Integrated Algebra 9 is designed for students who need additional foundational work with number sense, application problems, and core Algebra 1 skills. Students will develop the first half of a core Algebra 1 curriculum, including but not limited to the study of linear functions. In addition, students will begin a study of essential Geometry concepts. Students who are successful in Integrated Algebra 9 would typically then move on to Integrated Algebra 10, then Advanced Algebra, then Pre-Calculus or Math Electives.

Integrated Algebra 10
Yearlong.
Integrated Algebra 10 is designed for students who need additional foundational work with number sense, application problems, and core Algebra 1 skills. Students will develop the second half of a core Algebra 1 curriculum, including but not limited to the study of linear functions, quadratic functions, graph transformations: linear, absolute value, quadratic, and cubic functions. In addition, students will continue a study of essential Geometry concepts, including but not limited to triangle congruence. Students who are successful in Integrated Algebra 10 would typically then move on to Advanced Algebra, then Pre-Calculus or Math Electives.

Geometry
Yearlong.
Geometry is a course in which students develop their algebraic, logical, and verbal reasoning. Topics included but not limited to: Fall Trimester: 3-dimensional representations; points, lines, planes, rays, segments, and angles; formal algebraic reasoning; transversals and proofs of angle relationships. Winter Trimester: The coordinate plane; angle-sum theorems; and congruent triangles; special segments in triangles; the Pythagorean Theorem; similar triangles; special right triangles; and sine, cosine, and tangent. Spring Trimester: vectors and quadrilaterals, transformations, quadratic equations and in the context of problems of area, polyhedra surface area and volume, and end by studying circles and applying what we learned to spheres.

Advanced Algebra
Yearlong.
Course work includes review of basic algebraic concepts; solving equations; direct and inverse variations and their graphs; mathematical modeling; linear relations; systems of equations; parabolas and quadratic equations; complex numbers; functions; powers, roots, exponents, and logarithms; trigonometry, and series, combinations, and statistics.

Pre-Calculus
Yearlong.
Designed to prepare students for upper school Calculus or college mathematics. Course will focus on function composition, advanced functions, abstract problem solving and application. The course also covers a full trimester of trigonometry including graphing, solving, vectors and applications. Pre-Calculus is a more abstract and technical course and is meant to prepare students for higher level math and science courses through in depth analysis and exploration.

Honors Calculus I
Yearlong. Open to grades 11 & 12 who have completed Pre-Calculus and meet the Calculus Placement requirement or with permission of the Math Department Chair.

Calculus is the study of changing systems, moving particles, and dynamic processes. Students learn the fundamental techniques and results of differentiation and integration and then apply these methods to the solution of problems from geometry, economics, biology, and physics.

It introduces students to the infinitesimal analysis of the elementary functions of a single real variable, the investigation and calculation of limiting values. It is one of the truly essential tools a mathematician, scientist, or engineer uses to study the world, and for many high school students, it serves as a capstone course bringing together the many mathematical tools they have developed over the years into one setting.

Honors Calculus II

Yearlong. Open to grade 12 only who have completed Calculus I.

Second-year calculus is a course designed for seniors who have completed Calculus I. It has the goal of preparing students to transition into advanced math courses in college. Topics include advanced integration, double and triple integrals, elementary differential equations, infinite series, and the calculus of parametric and polar equations. A goal of the course is to have students be prepared for various calculus placement exams, including the BC test offered by the College Board. Students have the option of taking this exam in the Spring or a comparable mock exam. Statistics topics are covered from a calculus perspective. Together with skills learned in first-year calculus and previous math classes, students should enter college with a good grasp of many of the models, theories, and mathematical concepts connected with the study of the sciences, economics, engineering, mathematics, and other fields.

Math Electives

Honors Statistics

Yearlong. Open to grades 11 and 12.

This full year course will cover all topics of a typical semester long college statistics course as well as applied topics in mathematics such as business and economics, data analysis, the biological sciences, core computer math, recreational math, and other applied topics of interest to the class. The course is designed for a diverse range, students with math background from Precalculus up to and including Calculus I/II.

Functions, Statistics, and Trigonometry

Yearlong. Open to grades 11 & 12.

In the Functions, Statistics, and Trigonometry (FST) math course, topics are broken down by trimester. In the fall, we will go in-depth to study functions and how they are modeled around us. We start with a study of the absolute value function, graphing and understanding how the function exists in the real world. Then, we move on to quadratic functions, covering the different forms (vertex, standard, and factored form) and the pros/cons of each, as well as how to switch back and forth between the three forms. Finally, we will cover logarithmic, exponential, and rational functions. In the winter trimester of FST, students will go on to study statistics. We will cover one-variable statistics, two-variable statistics, data collection, and probability. Students will be asked to analyze data using different methods and decide which methods are the best descriptors. Finally, in the spring, we will study trigonometry. We will explore properties of triangles, including Pythagorean Theorem, trigonometry functions, trigonometric identities, and periodic functions. We will use graphing, translations, and algebra to explore this topic. Students are graded on homework completion, classroom participation and preparedness for class, vocabulary quizzes, assessments, and in-class projects.

Physical Education

Graduation Requirement for classes of 2021 and 2022: 4 credits.

Note: apart from the PE courses offered during the school day, after-school sports can be taken for PE credit. In accordance with the school's policy of participation, sports teams have turn-outs for placement on the appropriate team, varsity or junior varsity and in some cases where needed "C" teams; students are not cut. Students receive PE credit, but not a grade, for fulfilling the 75% participation attendance requirement. Sports credits do not fulfill the health education requirement for graduation. (Current physical forms must be on file for students to be eligible to participate in a school sport.)

The Seattle Academy Physical Education is to

prepare students for a life full of fun and healthy physical fitness. Access to a variety of fitness, sport, leisure, and adventure activities is provided in a safe and encouraging learning environment.

(Health courses have been listed under Health, located alphabetically.)

Sports Offerings
All sports are one trimester, after school.

Soccer	*Girls Fall, Boys Spring*
Cross Country	*Fall*
Volleyball	*Girls Fall*
Basketball	*Winter*
Wrestling	*Winter*
Tennis	*Boys Fall, Girls Spring*
Track and Field	*Spring*
Golf	*Boys Fall, Girls Spring*
Ultimate Frisbee	*Boys Fall, Girls Spring*
Lacrosse	*Spring*

Seattle Academy's sports program is based on a participatory philosophy. During the first practices of the season, placement is determined for Varsity and Junior Varsity, and "C" teams where needed.

Upper School PE
One trimester. Open to grades 9-12.
Upper School PE is designed to give students the opportunity to learn and play a variety of games; to learn and apply some core fitness concepts and activities; and to learn and apply some basic ideas about personal health and wellness. The goal of the course is to empower students to make wise choices for the benefit of their personal health and fitness and develop positive behaviors in game play, fitness, and wellness for the rest of their lives. Fitness activities and core concepts will include cardio-respiratory endurance, muscle strength and endurance training, aerobic training, and the planning, assessment and maintenance of physical fitness activities to improve health and/or performance. The curriculum emphasis will vary based on the faculty, the age and experience (and to some extent preferences) of the students in the class, and the space available for activities.

Strength and Conditioning
One trimester. Open to grades 9-12.
Commonly referred to in class as "SAASFit: A Strength & Conditioning Experience!" SAASFit is all about movement and effort! The course consists of cardio warm-up on various machines or group warm-up with jump ropes in the weight room. After warm-up the class delves right in to a Crossfit-type workout. This high-intensity workout mixes different exercies utilizing free weights, kettlebells, or one's own body weight as resistance, along with different cardio activities such as jump rope, running stairs, box jumping or riding a stationary bike. Students are challeneged to push themselves to increase their physical strength and fitness level.

Yoga
One trimester. Open to grades 9-12.
(May be used to fulfill a Health requirement)
The goal of this yoga course is to stretch both mind and body, learning that yoga can be a tool for stress reduction, mindfulness, and strength. Viniyoga, the primary style of yoga taught in this class, has three main foci: breath, adaptability, and body. Viniyoga is adaptable to any body, regardless of where you are in terms of flexibility. Learning about body awareness, with specific attention to having a engaged core and neutral spine before and after any twisting, lateral bending, or back bends, ensures a balanced body and decreases injury risk. We will also learn and practice some basic techniques of meditation. Additional cardiovascular exercise may include fitness machines, jump rope, stairs, and games that will increase your heart rate.

Rhetoric

Graduation Requirement beginning with class of 2022: 1 credit (1 trimester).

The Seattle Academy Department of Rhetoric believes that our programs are the crossroads of high-level academics and the Culture of Performance. Our program provides the foundational skills of Rhetoric necessary for

the development of responsible citizenship, immeasurably helpful for success across disciplines, and essential in the professional world.

9th Grade Rhetoric
One trimester. Required. This is the only course that will satisfy the Rhetoric requirement.
The course's core components are research, writing, and oratory. This includes students' abilities to analyze an issue, take a position, research, and effectively demonstrate and defend their ideas to an audience. Emphasis is placed on listening to, weighing, and valuing the words of allies and opponents alike, thus highlighting the distinction between argumentation and simply arguing. The required Rhetoric course provides an opportunity for students to wet their feet in possible preparation for the Seattle Academy traveling Speech squad, as it allows all students to gain an introduction to the general principles of public speaking.

Speech
Two trimesters: Fall and Winter.
Open to grades 10-12.
Speech is the preparation and rehearsal period for Seattle Academy's traveling competitive Speech squad. The Speech events include Original Oratory, Dramatic, Humorous, and Duo Interpretation, Prose and Poetry I Interpretation, Extemporaneous, Expository, and Impromptu speaking. There is a one-tournament-per-trimester minimum attendance requirement. Tournaments take place in the greater Puget Sound area, usually on a single Saturday, between early November and mid-March.

Debate
Two trimesters: Fall and Winter.
Open to grades 10-12.
Debate is the preparation and scrimmage period for Seattle Academy's traveling competitive Debate squad. The Public Forum debate format is a two-person format in which the national resolution changes on a monthly basis with 30 days' notice for research. This is a paired event. Debaters may keep the same partner all season long or switch back and forth between multiple teammates. There is a one-tournament-per-trimester minimum attendance requirement. Tournaments take place in the greater Puget Sound area, usually on a Friday afternoon/evening and all day Saturday, between early November and mid-March.

Mock Trial
One and/or two trimesters: Fall and/or Winter.
Open to grades 9-12. Grade 9 winter only.
In Mock Trial, students prepare and present a mock court case. They will play the parts of lawyers, witnesses, or clerks. The class will focus on legal process, legal reasoning, and case presentation. There is also a dramatic aspect for students who take on the witness roles. Students who wish to take on the role of an attorney should sign up for both Fall and Winter trimester. Students who wish to take on the role of a witness can take the class for only the Winter trimester. This course gives students the opportunity to explore the function of lawyers in society through the dramatization of a trial. At the end of the trimester, the mock trial team will compete against other teams in the Seattle area. Students in the class must be present at this competition. The competition is typically held the Saturday after President's Day in February.

Science

Graduation Requirement: 9 credits (3 years) required. 3 credits (one additional year) of math or science required. One additional year of math and science strongly encouraged.
The Science Department prepares students for college and life in a dynamic, diverse, and rapidly changing world, grounding students in the fundamental principles of scientific reasoning in a range of scientific disciplines. We seek to produce graduates who are motivated to investigate and solve problems using creativity, logic, technology, and collaboration, with a sense of and commitment to ethics and integrity.

The Science Department emphasizes science as a particular way of understanding the world.

This way of knowing is based upon devising, testing, discarding, and revising hypotheses. In order to implement this strategy, students must apply a process of inquiry which relies on both logical reasoning and imaginative thinking. Logical thinking involves the application of a canon of facts and empirical observations to draw unbiased conclusions. Imaginative thinking involves using diverse perspectives, innovative experiments, and novel uses of technology to approach questions. The Science Department seeks to emulate the methods used to conduct science in the global community, including close collaboration, individual research, and active peer review.

9th graders take Scientific Investigations, 10th graders take Chemistry, 11th graders take Biology, and 12th graders can choose between Physics and a variety of trimester electives. Students are required to take a fourth year of science or a combination of science and math and many students take science elective courses in addition to required courses.

9th Grade: Environmental Science
Yearlong.
Environmental Science challenges students to engage their knowledge and skills in creating and evaluating evidence with the goal of taking rigorously informed action in their evolving world. Students master content in three major units: Environment (fall), Experimentation (winter), and Physical Science (spring). Students develop skills in data integrity, model analysis, communication and group management through project-based experiences focused on implementing solutions to discovered problems. In addition, students meet increasingly sophisticated quantitative challenges in preparation for the rigors of further scientific study.

10th Grade: Chemistry
Yearlong.
Students study matter, atomic structure, the periodic table, chemical compounds and reactions, the mole, solutions, environmental issues, material science, and chemical energy. Students engage in frequent laboratory experiments and research projects, as well as several chemical engineering challenges. Lab report writing, data interpretation, and test preparation skills are developed. A lab science.

10th Grade: Concept Chemistry
Yearlong
Conceptual Chemistry is a project-based class where students study matter, atomic structure, the periodic table, chemical compounds and reactions, the mole, solutions, environmental issues, material science, and chemical energy. Each concept is covered according to student needs and will be presented with a balance of rigorous challenges and the scaffolding, discussion, and guidance necessary to make the abstract content of chemistry accessible to all learners. Students engage in frequent laboratory experiments and research projects, as well as several chemical engineering challenges. There will be an emphasis on the qualitative and conceptual understanding of the chemical world, supported by quantitative claims and literature support. Students will build skills for scientific writing, data interpretation, and test preparation. It is a lab science.

11th Grade: Biology
(Honors by Trimester Option)
Yearlong.
This course is designed to teach the fundamental concepts and research techniques of modern biology and to increase scientific reasoning skills and the ability to communicate scientific knowledge verbally, graphically, and in writing. Topics include cell biology, genetics, evolutionary theory and ecology. During fall and winter trimesters, students do extensive lab work. During spring trimester, students complete a field research project. A lab science.

11th Grade: Honors Biology
Yearlong.
This course covers core biological concepts of cell biology, genetics, evolution, and ecology. Students run experiments using laboratory-based model organisms during fall and winter terms, and during the spring term they design

and complete a field ecology research project. Throughout the course, students learn how to read and interpret scientific literature and explore current discoveries related to the topics being covered in class. As an honors course, students are asked to spend time out of class on some mechanics of learning and writing to free up class time for discussion and extension activities. A lab science.

Honors Physics
Yearlong. Open to grade 12.
Physics is a science that seeks to explain all of the natural world through the application of logic, experiment, and mathematics. The focus of the class is on experiential learning, using curiosity to drive explorations of the physical world. The course covers the essentials of classical mechanics at the college level–motion, momentum, forces, energy, work, power, circular motion, rotation, oscillation, waves, optics, gravitation, and special relativity. In every area we will develop physical intuition and reasoning about phenomena, learn new mathematical tools to describe those phenomena, and experimental techniques for probing the boundaries of our understanding. In addition, the class includes a computational component in which students learn to write simulations and analyses of physical phenomena using Python. Two sections are offered; Physics C is calculus-based and Physics A is algebra-based.

Science Elective Courses

Not all electives listed will be offered each year as determined by interest and staffing availability.

Honors Advanced Chemistry
Yearlong. Open to grades 11 & 12.
The purposes of this course is to give students an introduction to some of the more abstract and mathematical concepts in chemistry, help students prepare for the SAT II in chemistry, and give students the opportunity to design and complete a laboratory research project.

Biotechnology
Winter trimester. Open to grades 10-12, priority to grade 12.
Biotechnology (or DNA science) includes gene therapy, cloning, genetic engineering, DNA fingerprinting, etc. Biotechnology is a one-term senior lab science elective. The course goal is for students to learn some basic concepts and techniques of biotechnology and to investigate public policy and science ethics issues arising from this field.

Evolution
Spring trimester. Open to grade 12.
Darwin's theory of evolution is one of history's most elegant and revolutionary ideas. This course is a one-term science seminar elective. Students will study Darwin's theory, both as he wrote it and as it is understood now. The controversies surrounding the theory will be discussed. Students will use techniques of biotechnology, bioinformatics, and in-silico models of natural selection.

Endocrinology
Spring trimester. Open to grades 10-12. Priority to grade 12.
This class explores two of the main systems our bodies use to send messages between cells: the nervous system and the endocrine system. In the first half of the term we will learn about neuron and brain function, and explore how this is modulated by medications and experience. The second half will focus on how hormones affect animal development, feelings and behavior. Throughout the course discussions of bioethics and social justice will help us apply science to the real world. Freshmen may enroll once getting permission from the instructor.

Fact or Fiction: Finding Truth in the Information Age
Fall trimester. Open to grades 9-12.
The internet and social media have opened up a vast sea of information that we can access practically anytime and anywhere. But much of that information is garbage, garbage meant to mislead either through a twisting of facts or through outright lies. This class will examine how to tell what is true from what is lies. The class will delve into the philosophy of knowledge, the methods of propaganda, the psychology of how

we process information and the array of ways in which information is twisted to meet particular ends. The class involves research projects, outside reading and a great deal of discussion and debate. For a taste of the class, go to youtube and search for "the illusion of truth" by Veritasium.

GIS (Geographic Information Systems) & Urban Ecology

Winter trimester. Ope to grades 9-12. Priority to grade 12.

Spatial technology and geographic information systems (GIS) play an important role in today's society. From Google Maps to specialized industrial applications, the ability to visualize, interpret, and analyze data allows us to make more informed decisions. This course will introduce students to GIS, global positioning systems (GPS), and remote sensing technologies. We will investigate both how these systems work and their applications in fields ranging from conservation and environmental science to urban and evacuation planning. Additionally, students will use QGIS to investigate and answer questions related to urban ecology in the Pacific Northwest. Persistence, a love of problem solving, and a willingness to engage with technology are the only prerequisites for this class.

Infectious Diseases

Fall trimester. Open to grades 9-12.

This is a one-term science elective, in which we will study the human immune system, the nature of infectious diseases, and the history of human attempts to combat disease. Why do diseases like Ebola seem to "come out of nowhere?" Why don't we have epidemics of bubonic plague anymore? Why did we stop giving people vaccinations against smallpox? Why can't we cure AIDS? Why do human chromosomes contain over a million copies of DNA from an ancient virus? We will investigate these and other questions.

Introduction to Anatomy and Physiology

Fall or Winter trimester. Open to grades 10-12. Priority to grade 12.

This class covers the structure and function of the major systems of the human body, at both a cellular and organismal level. It will also explore the cellular basis of diseases and the ways the physiology of different animals reflects adaptations to specific environmental challenges. There will be an emphasis on current science and the ethical application of modern research. Freshmen may enroll once getting permission from the instructor.

Marine Science

One trimester: Fall or Spring. Open to grades 9-12. Priority to grade 12.

In Marine Science we focus on developing an understanding of chemical, geologic, and biological principles underpinning marine systems. Our review of these topics has included studying trophic networks, physical properties of water, tides, waves, oceanic circulation, and primary productivity. Rather than consider these factors in isolation, we have used case studies and global phenomena as a means of synthesizing discrete factual information into a more complete and complex understanding of marine science. Students will apply a systems approach to the discussion and study of many topics, including the global and regional impacts of the El Niño phenomenon, problems facing Florida's Indian River lagoon, and the complex challenges associated with studying deep sea hydrothermal vent communities.

Psychology

One trimester. Open to grades 9-12.

This course aims to give students an overview to the science of Psychology, including the origins of the study, the founders and major theorists, childhood development, abnormal psychology, and psychology in today's world. Assessments would include vocabulary quizzes, pamphlet making, presentations on different disorders, in-class writing about current issues, and group work.

Advanced Psychology

One trimester. Open to grades 10-12.

Advanced Psychology will give students an in-depth look into the science of psychology, including research methods, sensory/perception, cognition, testing, and treatment of abnormal

behavior. Students will have already learned about the foundations of psychology in our introductory course and will build on that knowledge in Advanced Psychology. We will have experts in the field as guest speakers in the course to enhance what we are learning and show students different careers in psychology. Assessments will include vocabulary quizzes, research papers, presentations on different disorders, and in-class writing about current issues.

World Language

Graduation Requirement: 9 credits (3 years), 2 years in the same language.

At Seattle Academy, the study of world languages fosters global awareness, reflection on students' learning processes and first language, and general intellectual curiosity. Courses in The World Language Department emphasize communication and global perspective. The goal of the department is to prepare students for college and life by teaching them to participate effectively in contemporary society. We encourage students to develop linguistic skills that can be used in both future classes and real world situations, beyond the classroom. All teachers in the department strive to create a positive, dynamic learning environment where students continually improve their abilities to produce and comprehend the target language.

The modern language program provides students a choice of multi-year study of French, Mandarin Chinese or Spanish. In each modern language track, students learn and practice a target language and explore cultural components associated with the chosen language. Modern language classes are proficiency-based; students enroll in a level that is the best fit for their particular experience and interests related to studying the target language.

Course offerings for French, Mandarin and Spanish classes include levels 1-6 in each language. Students generally progress through the program sequentially, for example from Mandarin 2 to Mandarin 3. Mandarin 4 and 5 are honors classes. In French and Spanish, there are both Honors and non-Honors 4th year classes to choose from, and all 5th year classes are Honors classes. Students are assessed for placement upon entering the modern language program and are re-assessed throughout the year, to determine placements for the subsequent year. Some students choose to learn a second World Language after–or while–completing their World Language requirement. Students earn elective credits for classes taken in excess of the World Language requirement.

(Please see Appendix B and C for a visual representation of course sequencing in Spanish and French.)

Students are placed at the appropriate level based on their competency, experience with the language, and language learning goals. The first three levels are devoted to building vocabulary and a grammatical framework so that students can express themselves and comprehend language used in commonplace situations. Class work emphasizes speaking and listening skills, while homework is focused on reading and writing. At all levels, we stress the mastery of grammar rules, the acquisition of reading fluency, and the ability to write correct Spanish or French prose.

9th-12th Grade: French/Spanish
Yearlong, each level. Grades 9-12.
Fourth, fifth, and sixth year honors students are working towards fluency. At these levels, students review complex grammar structures and are introduced to classical and contemporary literature, music, articles and film.
While grammar and vocabulary are taught in fifth and sixth year classes, the primary focus is on literary analysis and discussion.

9th-12th Grade: Mandarin Chinese
Yearlong, each level, grades 9-12.
The goals of Seattle Academy's Chinese program are to develop students' communicative proficiency and comprehension skills in listening,

speaking, reading and writing as well as to increase awareness and interest in Chinese culture and customs through numerous activities and projects. We focus on pronunciation, phonics and tonal inflection, gradually learn vocabulary and sentence structures written in Pinyin, and introduce Mandarin characters. Students also learn proper Chinese calligraphy techniques and strokes.

Additional Electives

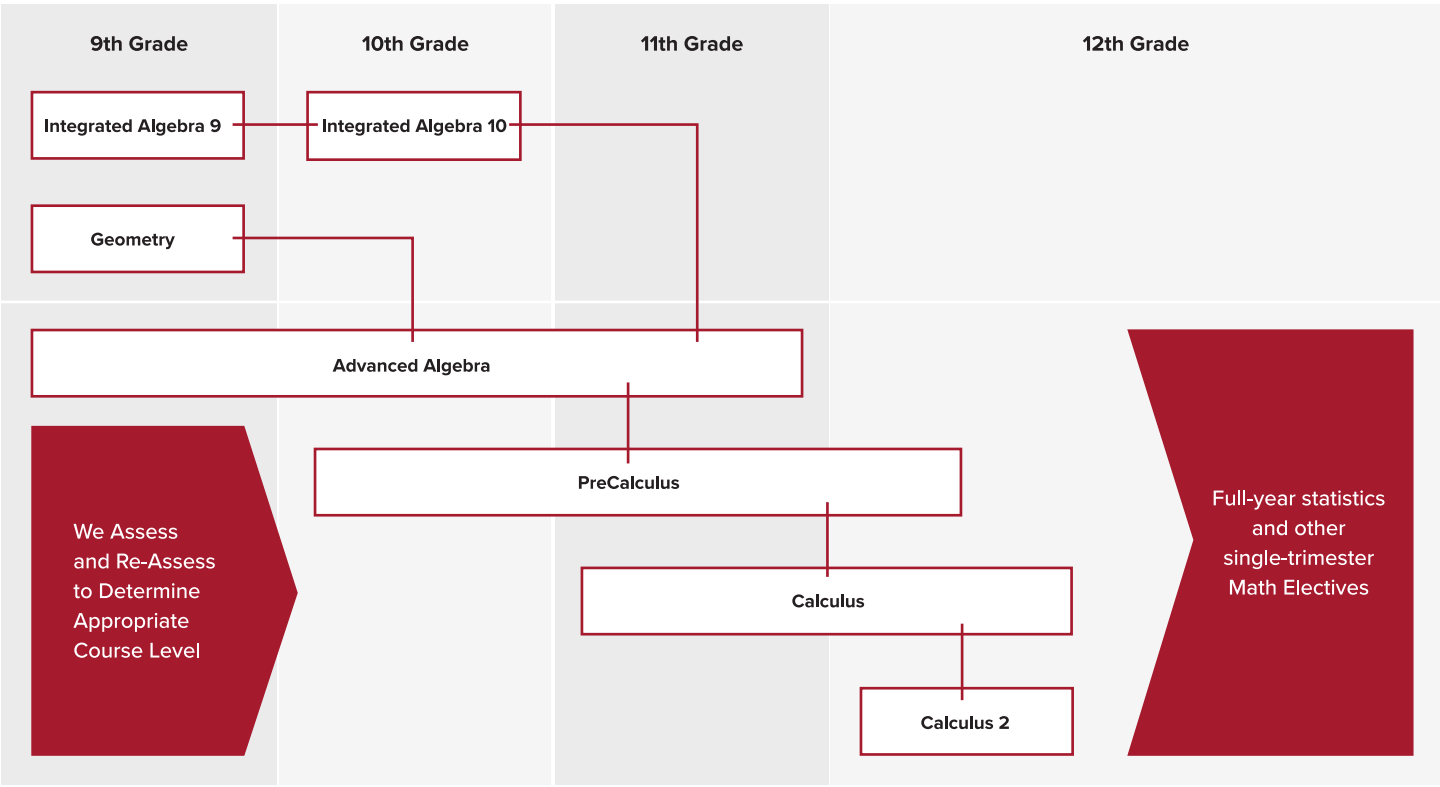
Civic Engagement

One trimester. Open to grades 10-12.

In this one-term elective option. Students will learn how to make their voices heard on civic issues that matter to them and will develop a "toolkit" for present and future engagement. Among the tools that students will use over the course of the term: An online tool for easy voter registration; how to find out who decision-makers are for specific policies (both governmental and corporate); how to find out who represents you on the local, state, and federal level; how to contact your representatives or other decision-makers in ways that are most likely to make a difference; how to find and participate with organizations that work on behalf of issues that matter to you; how to get "update alerts" on those issues; how to submit official comments on proposed government regulations; how to research and comment on proposed legislation… and more, as time and interest determine. We will work to arrange visits to Seattle office(s) of our federal, state, or local representatives, Coursework will include researching issues,"deploying the tools of engagement" and keeping a daily in-class journal.

Math Course Offerings: Upper School

Below is a visual representation of course sequences for math.

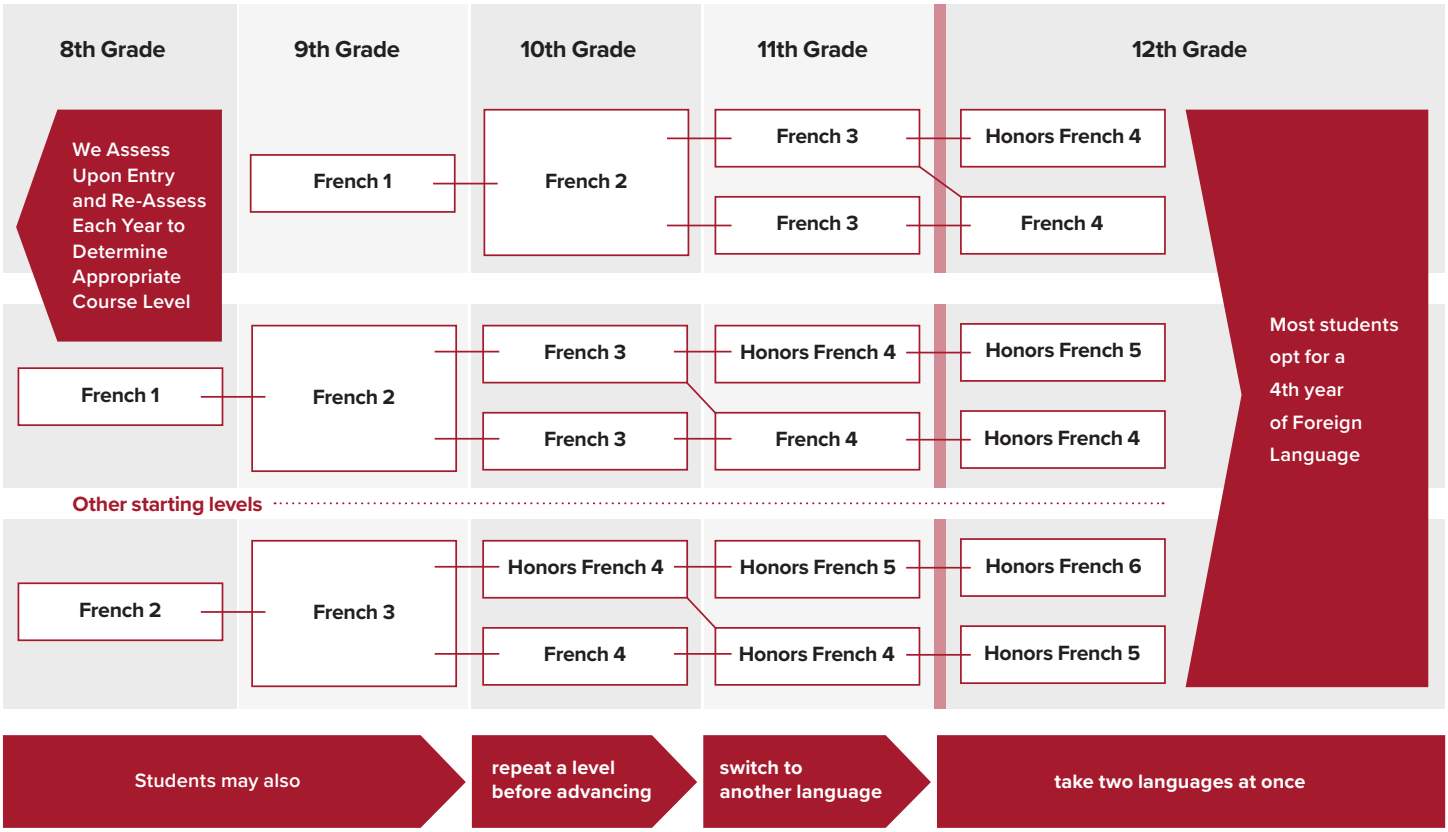


Definitions of 9th Grade Courses

Integrated Algebra 9	For students who have previously taken Pre-Algebra and/or who would benefit from adjusted pacing
Geometry	For students who have previously taken Algebra 1
Advanced Algebra	For students who have previously taken Algebra 1 and Geometry

World Language Offerings: French

SAAS World Language Requirement:
3 years of High School World Language; at least 2 in the same language.



SHADED RED LINE represents the point at which the SAAS graduation requirement has been met.

Notes

1 The chart shows general patterns for grade levels.
Actual individual schedules can and do vary.

2 Students who enter with academic fluency in a language typically begin a new language.

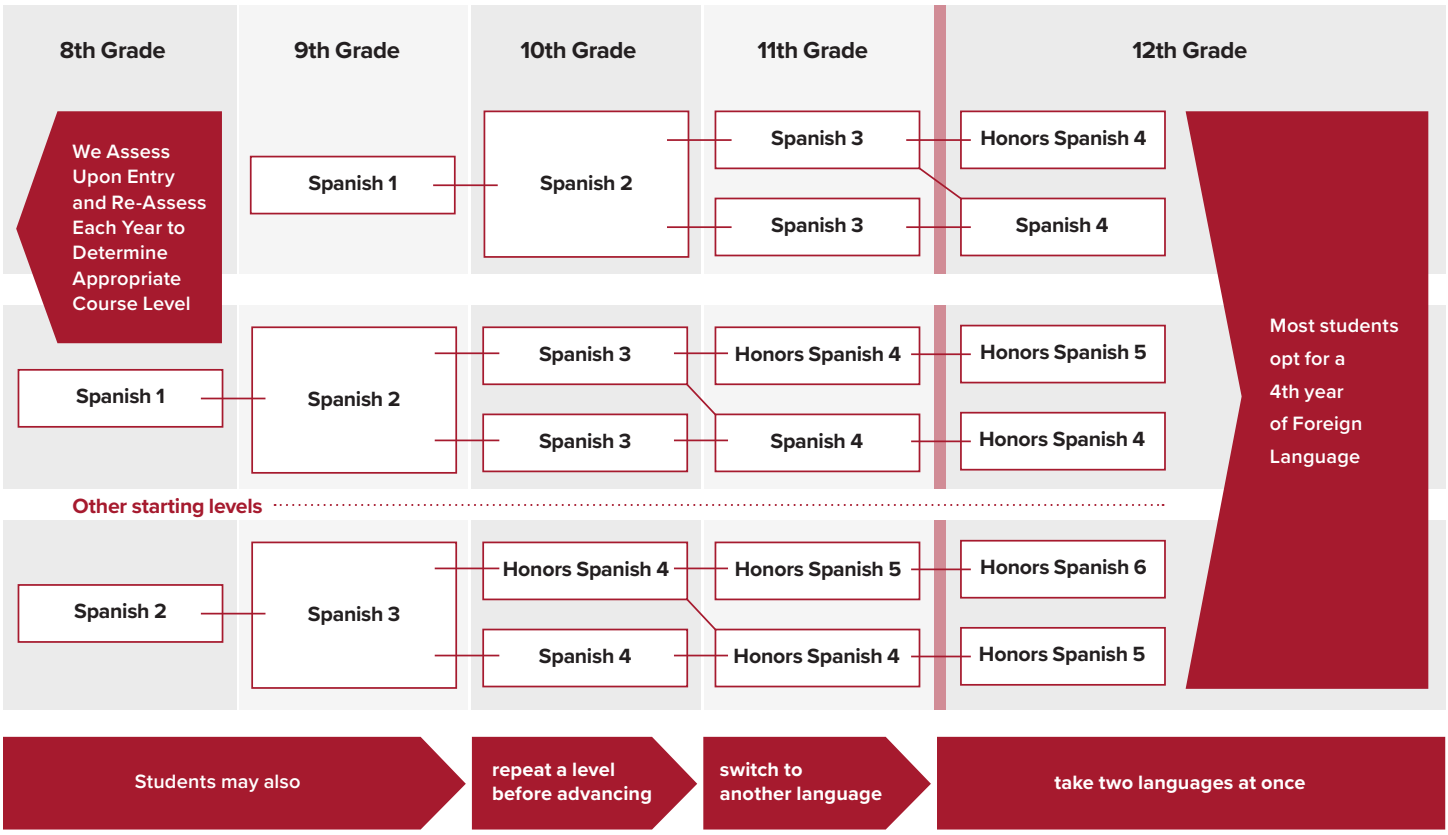
3 Students are assessed and placed in the appropriate level upon entry and by the end of each academic year.

4 Placement is based on proficiency level, rather than grade level.

5 A course may be repeated; teachers recommend the course level for the following year.

World Language Offerings: Spanish

SAAS World Language Requirement:
3 years of High School World Language; at least 2 in the same language.



SHADED RED LINE represents the point at which the SAAS graduation requirement has been met.

Notes

1 The chart shows general patterns for grade levels.
Actual individual schedules can and do vary.

2 Students who enter with academic fluency in a language typically begin a new language.

3 Students are assessed and placed in the appropriate level upon entry and by the end of each academic year.

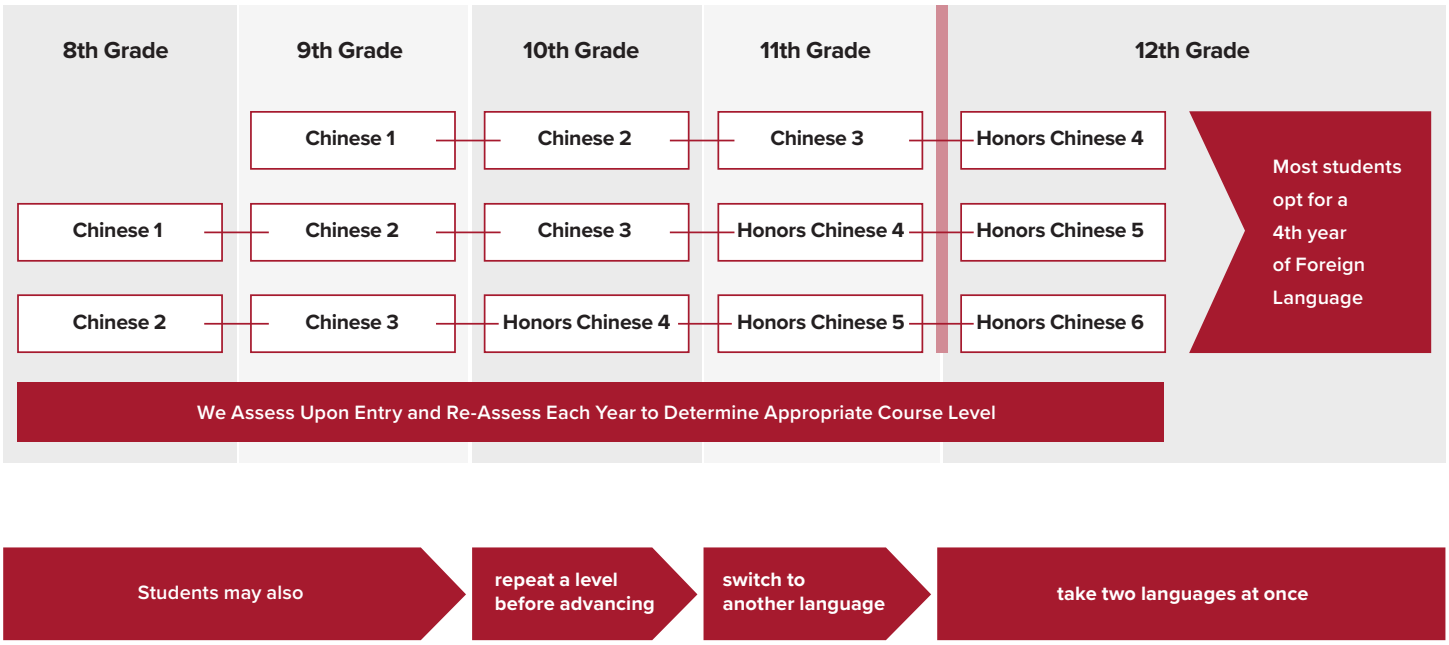
4 Placement is based on proficiency level, rather than grade level.

5 A course may be repeated; teachers recommend the course level for the following year.

APPENDIX D

World Language Offerings: Mandarin

SAAS World Language Requirement:
3 years of High School World Language; at least 2 in the same language.



Notes

1 The chart shows general patterns for grade levels.
Actual individual schedules can and do vary.

2 Students who enter with academic fluency in a language typically begin a new language.

3 Students are assessed and placed in the appropriate level upon entry and by the end of each academic year.

4 Placement is based on proficiency level, rather than grade level.

5 A course may be repeated; teachers recommend the course level for the following year.

2020/21 Odd Week

Day /Time	Monday Modified Odd	Day/Time	Tuesday Even	Wednesday Odd	Thursday Even	Friday Odd
8:15 - 9:30	1	8:15 - 9:35	2	1	2	1
9:30 - 10:15	Community Time	9:35 - 10:00	Break	Break	Break	Break
10:15 - 11:30	3	10:00 - 11:20	4	3	4	3
11:30 - 12:20	Lunch	11:20 - 12:10	Lunch	Lunch	Lunch	Lunch
12:20 - 1:35	5	12:10 - 1:30	6	5	6	5
1:35 - 1:45	Break	1:30 - 1:40	Break	Break	Break	Break
1:45 - 3:00	7	1:40 - 3:00	8	7	8	7

2020/21 Even Week

Day /Time	Monday Modified Even	Day/Time	Tuesday Odd	Wednesday Even	Thursday Odd	Friday Even
8:15 - 9:30	2	8:15 - 9:35	1	2	1	2
9:30 - 10:15	Community Time	9:35 - 10:00	Break	Break	Break	Break
10:15 - 11:30	4	10:00 - 11:20	3	4	3	4
11:30 - 12:20	Lunch	11:20 - 12:10	Lunch	Lunch	Lunch	Lunch
12:20 - 1:35	6	12:10 - 1:30	5	6	5	6
1:35 - 1:45	Break	1:30 - 1:40	Break	Break	Break	Break
1:45 - 3:00	8	1:40 - 3:00	7	8	7	8

APPENDIX F

Arts Information, Audition Dates, and Portfolio Reviews for 2020-2021

Auditions for 2020-2021 take place in the Spring of 2020. See below.

Arts Courses	Audition Dates & Information	Details
Acting **Intermediate Acting** *2 trimesters: Fall & Winter* **Advanced Acting** *Yearlong*	**Dates TBA** Refer to registration link information sent April 20th. Open to students in grades 10 through 12 next year. Students will need to present a 1-2 minute memorized monologue.	If you have questions, or a conflict with the date, contact **Michael Cimino** at **mcimino@seattleacademy.org**. **Note:** Incoming 9th graders will have the opportunity to audition for the after school productions and can register for other acting electives. After-school Musical (fall tri) and Drama productions hold auditions at the start of the term they are scheduled in.
Dance **Intermediate Dance** *2 trimesters: Winter & Spring* **Intermediate Advanced Dance** *Yearlong* **Advanced Dance** *Yearlong*	**Dates TBA** Refer to registration link information sent April 20th. The audition is open to all students and will consist of a short dance class, learning a piece of choreography, and a meeting to talk about the year.	Contact **Alicia Mullikin** at **amullikin@seattleacademy.org** if you have questions or a conflict with the date.
Instrumental Music **Jazz Ensemble I & II** *Yearlong*	**Dates TBA** Refer to registration link information sent April 20th. Open to all students. Students currently in the program will	For audition materials and/or if you have questions or a conflict with the date please contact **Matt Frost** at **mfrost@seattleacademy.org**.
Vocal Music **Vocal Revue** *1 trimester* **Vocal Ensemble** *After-school winter trimester* **Jazz Choir III** *2 trimesters: Fall & Winter* **Jazz Choir II** *2 trimesters: Fall & Winter* **Jazz Choir (The Onions)** *Yearlong*	**Dates TBA** Refer to regitration link information sent April 20th. Open to all students.	If you have questions about the program, or a conflict with the audition date, contact **Mark Hoover** at **mhoover@seattleacademy.org**.

Arts Courses:

All Portfolio Review Dates noted at right:

Film

Advanced Film
Two trimesters: Fall and Winter

Open to sophomores, juniors, and seniors. Contact **Cheryll Hidalgo** for a review of previous work by **TBA.** Contact Cheryll at **chidalgo@seattleacademy.org**.

Photography

Advanced Photography
Two trimesters: Fall and Winter

Open to juniors and seniors. Students need to present their portfolio to **Rebekah Rocha** by **TBA**. Contact Rebekah at **rrocha@seattleacademy.org.**

Visual Arts

Advanced Studio Arts
Two trimesters: Fall and Winter

Open to seniors. Students need to present their portfolio to Studio Arts Faculty by **TBA.** Please make arrangements with **Annalise Olson**, **aolson@seattleacademy.org** and **Amanda Amsel, aamsel@seattleacademy.org**

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