



SUMMER SCHOOL PROGRAMS

Curriculum Guide 2019



| | |
|--|-----------|
| REGISTRATION INFORMATION | 2 |
| FOR-CREDIT COURSES | 3 |
| ARTS | 3 |
| Introduction to Photography | 3 |
| Digital Music Production | 3 |
| ENGLISH..... | 4 |
| English 10..... | 4 |
| Studies in Literature: Science Fiction and the Future of Humanity..... | 4 |
| HISTORY | 5 |
| H100 World History: The Human Web | 5 |
| H300 United States History | 5 |
| LANGUAGES | 5 |
| MATHEMATICS..... | 6 |
| M210 Algebra II | 6 |
| M400 Precalculus | 7 |
| M542 Computer Science I | 7 |
| M543 Computer Science II | 7 |
| M544 Computer Science III..... | 8 |
| PHYSICAL EDUCATION | 8 |
| PE Yoga Fusion | 8 |
| PE Blended Fitness | 9 |
| SCIENCE..... | 9 |
| S100 Biology | 9 |
| S200 Physics..... | 9 |
| NON-CREDIT COURSES..... | 10 |
| COLLEGE COUNSELING..... | 10 |
| ACT Prep | 10 |
| The College Application Essay..... | 11 |
| SAT Prep | 11 |
| SERVICE LEARNING..... | 11 |
| Service Learning Experience: Poverty in Seattle | 11 |
| SKILL BUILDING | 12 |
| 9 th /10 th Grade Writing | 12 |
| Lakeside Summer Research Institute..... | 12 |

Registration Information

- Registration for current Lakeside students, children of Lakeside alumni, and The Downtown School students begins **Friday, February 1**.
- Financial Aid is available on a first-come-first-served basis. Apply as soon after registration as possible for best consideration. **Current Lakeside families:** If your family receives school-year aid, you will automatically be considered for assistance. Lakeside families not receiving school-year aid must complete the entire Financial Aid application.
- Families may apply for financial aid as part of the registration process.
- The Summer School Programs office is available by emailing SummerSchool@lakesideschool.org or calling (206)440-2700.
- The application and registration process for students who do not currently attend Lakeside begins on **Monday, February 25**.
- Classes are not in session on Thursday, July 4 in observance of Independence Day. **Students are expected to be in class every other day of that week.**
- **Attendance Policy:**
It is critical for students to attend class and be on time every day in a summer course. Therefore, the only excused absences granted will be for illness or an unexpected, significant situation. All other absences will be unexcused and may result in academic consequences including, but not limited to, grade penalties. Planned absences, such as missing class for a family trip, an appointment, or a sports tournament, are not permitted. Three unexcused absences in a six-week course or two unexcused absences in a three-week course will result in a failing grade on the student's transcript. Please note that regular and/or significant late arrivals to class will be considered unexcused absences.
- **Homework Policy:**
Because of the importance of all students being ready to fully participate in class, the following will apply to all students:
If a student comes to class unprepared (did not attempt all homework), that student will be given a warning and will be expected to complete the missed assignment for the next day. The second time that a student comes to class unprepared, that student will be excused from class immediately and sent to the Summer School Programs director's office. Except in the rarest of instances, the student will be dropped from the class and no refund will be awarded to the family. For classes that award credit and record a grade, no credit will be given, and a failing grade will be noted on the transcript.

For-Credit Courses

Please note: Classes will not be held on Thursday, July 4.

ARTS

Introduction to Photography

Photo I is designed to expose students to the creative and technical aspects of photography while establishing a foundation in the visual arts. Students work with both black and white film and digital cameras, building skills behind the camera, in the darkroom, and with digital imaging tools. Students will gain a solid grounding in camera controls and printmaking while learning to appreciate the role that composition, design, color and light play in the visual arts. Students will have an opportunity to exhibit and showcase their photographs and learn to use digital tools for archiving and sharing their artwork. Film and printing supplies are provided by the school.

This course requires students to have a 35mm single lens reflex film camera; one which allows you to adjust aperture and shutter speed. Some cameras may be available for students to borrow.

Prerequisites: None

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1,950, *includes materials fees*

Digital Music Production

Due to recent innovations in music production technology, anyone can now compose and produce their own musical masterpieces. In this six-week course, students will compose and produce their own original compositions using a Digital Audio Workstation (DAW), while also learning the fundamentals of music theory. This course will cover many topics including song concept development, song structure, verse and chorus differentiation, effective use of the frequency spectrum, and how to mix, applying tools such as EQ, compression, and filters. Students will also learn about microphones, cables, sound propagation, gain structure, and other elements of live sound. This course is structured around the design-thinking process, which involves empathizing with an audience, iterating on a prototype, collaborating with peers, and releasing the final product for more feedback. Over the course of six weeks, students will compose and produce several original compositions and will actively participate in group studio classes, collaborative projects, and peer-review exercises. *This course is non-repeatable for credit.*

Prerequisites: None

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1,950, *includes materials fees*

ENGLISH

English 10

This course explores how authors from diverse international backgrounds have used literature to explore personal, cultural, and national identities as well as related issues of social justice. Together, we investigate the ways in which literature can be a vehicle for the creation and reflection of culture and identity, and for the understanding of and resistance to power and privilege. In addition, we study the specific characteristics and effects of different literary genres, principally fiction (novels and short fiction), drama, poetry, and literary nonfiction. By learning about the elements of literature through critical reading, students also hone their own expressive skills through a range of analytical, creative, personal, and persuasive writing assignments, as well as through public speaking, collaborative assignments, and creative projects. Texts include Jhumpa Lahiri's "Interpreter of Maladies," Edwidge Danticat's "The Dew Breaker," Evan Placey's "Pronoun," Trevor Noah's "Born A Crime," a play by Shakespeare, and additional novels, short stories, poems, and works of nonfiction.

Prerequisites: Successful completion of 9th grade English.

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1950

Studies in Literature: Science Fiction and the Future of Humanity

We are cyborgs – cybernetic organisms – whether we like to admit it or not. Our daily lives – all across the globe – are suffused with technology, with algorithms, smart phones, and devices of all kinds, so we must ask: How will we evolve as a society, as a species, and what are our moral imperatives and responsibilities? What can science fiction – in literature and film – from around the world teach us about what we are and what we may become? Should we let computer systems, robotics, and AI evolve unchecked? This course will concentrate on three areas: artificial intelligence, bioengineering, and utopian social schemes. Texts studied will include "Do Androids Dream of Electric Sheep" by Philip K. Dick, "Oryx and Crake" by Margaret Atwood, Aldous Huxley's "Brave New World", as well as short fiction by international authors from China, South Africa, Poland, and USA, among others. Students will supplement their textual analysis with a critical study of films like "Gattaca," "Her," and "Blade Runner." In addition, this course will look at current issues and scientific experiments, and write in a variety of modes ranging from analysis to creative writing. Students will complete various kinds of creative projects and give presentations on different topics, including new technologies.

Prerequisites: E100 and E200 or two years of high-school English.

Course Dates/Time: July 15 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$975

HISTORY

H100 World History: The Human Web

How did the world get so connected? To what end has power been used by individuals, empires, and groups of people? This is a survey of the formative events, ideas, and conditions of the world from the rise of Islam to the age of Enlightenment (from the eighth to 18th centuries). Using project-based learning as our strategy, students will practice the skills necessary for successful historical inquiry: critical reading of a variety of sources; cogent analytical writing; participating successfully in class discussions; engaging in substantive research; and speaking persuasively.

Prerequisites: None

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1,950

H300 United States History

This yearlong course provides students with a foundation for understanding the modern United States in all of its complexity. It also provides a foundation for active citizenship, exploring themes of power, the establishment of a republican form of government, and the intersection of politics and economics. The course is built around essential questions in the study of United States history, such as how foreign policy has changed over the past two centuries. Writing is an important feature of the offering and students will engage in both historical analysis and research projects.

Prerequisites: The Human Web (H100), The Modern World and You (H200) or two years of high-school History.

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1,950

LANGUAGES

Spanish III: GSL in Costa Rica

This course is open only to Lakeside students.

This course, which includes three weeks of classroom instruction at Lakeside School, as well as an immersive three-week homestay and service learning experience in Costa Rica, focuses on the complex connections between human culture and the environment. By studying with a Spanish teacher two-to-four hours a day throughout the six-week program, students will deepen their knowledge of Spanish grammar and syntax, with the goal of improving communication and cultural exchange during their time

in Costa Rica. The immersive Global Service Learning portion of the program will take place at Cirenas, a non-profit organization on the Nicoya peninsula that specializes in sustainable development and environmental conservation. While living in homestays and completing service projects, students will not only improve their conversational Spanish but also deepen their understanding of the complex ways in which culture and history shape—and are shaped by—the natural world.

Time commitment and cost: Students in the course must participate in all the Seattle-based components of the class as well as the GSL experience. The cost of this course includes all GSL travel expenses, including air travel. Financial aid is available. A student may count up to 20 hours of Global Service Learning hours toward Lakeside's graduation requirement of 80 hours of service. The school reserves the right to change the GSL location in case of emergency or changed conditions at the original site.

How to apply: Students may register anytime Feb. 1 - March 1 using the link emailed to Lakeside families in January. Families will be informed of acceptances by March 15. The class will be capped at 16 students. Registration for this course closes March 1.

Prerequisites: Spanish I and Spanish II

Course Dates/Time:

On-campus component: June 24 – July 5 and July 30 – August 2; 8:30 a.m. – 12:30 p.m.

Costa Rica trip: July 7- July 29

Credit Earned: 1.0 (yearlong) and 20 global service learning hours.

Tuition: \$5,200

MATHEMATICS

M210 Algebra II

The course focuses on the analysis of functions and their applications while introducing students to a variety of topics in discrete mathematics. After exploring the algebraic, graphical, and numerical properties of general functions, specific types of functions will be examined from these perspectives. The course will examine each of the following families of functions: linear, quadratic, exponential, polynomial, logarithmic, rational, and trigonometric. Additional topics in discrete mathematics such as statistics, matrices, sequence and series, combinatorics, and probability will give students the tools to analyze interesting, highly relevant problems. Both computers and graphing calculators will be used extensively throughout the course. Students will also learn dynamic spreadsheets to further their understanding of the mathematical concepts.

Prerequisites: Algebra I (M110)

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1,950

M400 Precalculus

The focus of Precalculus is on the concept of function and the use of functions as mathematical models. Topics necessary for success in either a calculus or a statistics course (including conic sections, regression techniques, trigonometry, and limits) will be studied. Students should anticipate some review of material from previous courses as a bridge toward more advanced understanding. Topics in computer programming including variables, expressions, scripts, conditional, loops, and functions will be reviewed and used regularly to explore mathematical content.

Prerequisites: Algebra I (M110), Algebra II/Trigonometry (M210) and Geometry (M300)

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1,950

M542 Computer Science I

This course is open to all students with little or no programming experience who want to go beyond just using computer applications. Computer Science I is an introduction to how computers work and how to write software. Technical expertise or prior programming experience is not required, only an open mind and a willingness to experiment, explore, and have some serious fun. Students will learn some basics of programming in the Python language by writing a series of programs defined by their instructor. They will then have the opportunity to follow their own interests and pursue more complex projects that may require them to learn new, more advanced programming techniques. Quizzes will be used to check understanding of basic programming concepts, but the majority of the grade will be determined by successful completion of teacher and student defined projects. This course is designed as an introductory experience for students who are curious about computers and programming, but who have limited or no formal training.

Prerequisites: None

Course Dates/Time: June 24 – July 12; 8:30 a.m. – 12:30 p.m.

Credit Earned: 0.5 (semester)

Tuition: \$975

M543 Computer Science II

This fast-paced course introduces students to computer programming through the Java language. The course begins by studying elementary algorithms, data types, flow of control, user input, file input/output, recursion and some graphical applications using procedural programming techniques. Problem analysis, planning, coding, and debugging will be emphasized for each project. This course will also teach principals and techniques of software engineering (software life cycle, programming practices, etc.). Students with a programming background in Java or another language can refine their skills by choosing to complete more complex projects. This course when combined with Computer Science III prepares students for success on the AP Computer Science exam in May.

Prerequisites: Successful completion of Computer Science I or equivalent course.

Course Dates/Time: June 24 – July 12; 8:30 a.m. – 12:30 p.m.

Credit Earned: 0.5 (semester)

Tuition: \$975

M544 Computer Science III

This course is a continuation of Computer Science II, covering object-oriented programming and inheritance in Java, more advanced data structures (lists, stacks, queues, trees), and the efficiency and complexity algorithms (particularly searching, sorting). Problem analysis, planning, coding, and debugging will be emphasized for each project. This course prepares students for success on the AP Computer Science Exam in May. Students also design and complete an independent project, culminating in a presentation to the class at the end of the course.

Prerequisites: Successful completion of Computer Science II.

Course Dates/Time: July 15– August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 0.5 (semester)

Tuition: \$975

PHYSICAL EDUCATION

PE Yoga Fusion

Looking for ways to connect with your body, strengthen your muscles, improve your flexibility, and feel more grounded? In this class, students will learn the foundations of a yoga practice, the history of yoga, and the poses and breathing techniques to increase energy, focus, and inner calm. Students will be taught different ways to make poses more or less challenging depending on their need in that moment. Students will also learn and practice mindfulness and meditation techniques as a way of soothing the mind, calming the body, and lowering stress. The fusion aspect of this class allows students the opportunity for personal workouts and/or friendly team games. This PE elective may work well for athletes who would like guided time to stretch their muscles and improve their flexibility. All levels of yoga experience are welcomed in this class.

Prerequisites: None

Course Dates/Time: June 24 – July 12; 8:30 a.m. – 12:30 p.m.

Credit Earned: .5 (one semester)

Tuition: \$975

PE Blended Fitness

This class will focus on a variety of activities designed to allow students to develop and improve a variety of physical fitness attributes, including circuit training to develop strength, cardiovascular training to develop stamina, yoga for improved flexibility, as well as fun game activities. In addition, students will learn training concepts and theory, along with nutrition for movement performance. The course is designed for the student looking to develop multiple aspects of their fitness and includes outdoor activities and field trips that take advantage of the beautiful Seattle summer.

Prerequisites: None

Course Dates/Time: July 15 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: .5 (one semester)

Tuition: \$975

SCIENCE

SI00 Biology

As Lakeside's introductory science course, Biology provides students an initial opportunity to become familiar with science as a way of thinking. Students will learn to collect, analyze, and interpret information, as well as how to effectively communicate scientific concepts. Student-focused discussions, exploratory activities, and laboratory exercises are designed to enhance scientific literacy. The course covers major topics in biology such as cell theory, biochemistry, genetics, ecological principles, and evolution. Students will spend one week at IslandWood on Bainbridge Island immersed in their studies and doing field research.

Prerequisites: None

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

IslandWood trip: July 14 - 18

Credit Earned: 1.0 (yearlong)

Tuition: \$3,250, *includes IslandWood costs*

S200 Physics

This lab-based course is an introduction to the physical world through hands-on and theoretical investigations. Students will investigate ideas surrounding motion, force, momentum, energy, and circuits. Students will also deepen data analysis and communication skills they have learned in prior science, math, and language arts classes. They will develop functional graphical and mathematical models of the physical world by collecting, analyzing, and interpreting real-world data. They will be asked to effectively communicate scientific and quantitative concepts they derive.

Prerequisites: Successful completion of Biology and Algebra II or Honors Geometry.

Course Dates/Time: June 24 – August 2; 8:30 a.m. – 12:30 p.m.

Credit Earned: 1.0 (yearlong)

Tuition: \$1,950

Non-Credit Courses

Please note: classes will not be held on Thursday, July 4.

COLLEGE COUNSELING

ACT Prep

This two-week course will be taught by professionals from Applerouth Tutoring Services. The course will focus on all four sections of the ACT and will be dynamically tailored to meet the needs of individuals and the group. The curriculum includes math and grammar content alongside strategies for reading, writing, math, science, and the essay. Students will learn how to manage their attention, working memory, and other mental resources to approach the test methodically and consistently. The course will provide a variety of opportunities to practice these strategies through classwork, homework, and two full-length practice tests using official materials. Every student will receive two books: one official book of ACT practice tests and Applerouth's own "Guide to the ACT".

Prerequisites: Open to rising juniors and seniors only.

Course Dates/Time: 8:30 – 11:30 a.m. (Class on the first and last day of the session will run until 1:00 p.m. to accommodate students taking a practice test)

Session I: June 24 – July 5

Session II: August 5 – 16

Credit Earned: This is not a graded class, but students will receive individual comments.

Tuition: \$875

The College Application Essay

Ever wonder what admissions officers really look for in a personal statement? This week-long course focuses on brainstorming, drafting, and revising the college application essay. Intended for rising seniors who want to devote a full week to writing their essay, this course offers students support and guidance through what can be an intimidating enterprise. Class activities may include guided writing, brainstorming activities, discussions, and editing workshops. By the end of the week, students who participate fully should have a strong draft of their personal essay completed.

Prerequisites: Open to rising seniors only.

Course Dates/Time:

Session I: July 15 – 19; 9:00 a.m. – 11:00 a.m.

Session II: July 29 – August 2; 9:00 a.m. – 11:00 a.m.

Credit Earned: This is an ungraded course earning no credit.

Tuition: \$540

SAT Prep

This two-week course will be taught by professionals from Applerouth Tutoring Services. The course will focus on all three sections of the SAT and will be dynamically tailored to meet the needs of individuals and the group. The curriculum includes math and grammar content alongside strategies for reading, writing, math, and the essay. Students will learn how to manage their attention, working memory, and other mental resources to approach the test methodically and consistently. The course will provide a variety of opportunities to practice these strategies through classwork, homework, and two full-length practice tests using official materials. Every student will receive two books: one official book of practice tests (College Board Study Guide) and Applerouth's own Guide to the SAT.

Prerequisites: None. Open to rising juniors and seniors only.

Course Dates/Time: 8:30 – 11:30 a.m. (Class on the first and last day of the session will run until 1:00 p.m. to accommodate students taking a practice test)

Session I: July 8 – 19

Session II: August 5 – 16

Credit Earned: This is not a graded class, but students will receive individual comments.

Tuition: \$875

SERVICE LEARNING

Service Learning Experience: Poverty in Seattle

This week-long course exposes students to the general issues that relate to poverty, as well as the specific needs of people who experience poverty in the Seattle metropolitan area. Using the city as a classroom,

students will work alongside local non-profit agencies to make a measurable impact on our community. We will start our week learning definitions of hunger, minimum wage, living wage, poverty, Fair Housing Act, and more so that students have the foundation to communicate what they will be experiencing and doing. Our service work will expand students' understanding of issues related to poverty and expose them to people and organizations doing important work in the community. Potential service-learning projects may include: preparing meals, preparing a shelter for its nightly clients, sorting and packing rescued food at a food bank, and refurbishing appliances and building materials for subsidized housing.

Prerequisites: None.

Course Dates/Time: July 29 – August 2; 8:00 a.m. – 4:00 p.m.

Credit Earned: This is an ungraded course earning no credit, but 25 service hours may be applied to graduation requirements.

Tuition: \$340

SKILL BUILDING

9th/10th Grade Writing

This course will provide training in different modes of writing, particularly analytical writing, to help students at the 9th and 10th grade levels. Special attention will be paid to critical thinking, organization, clarity, proper use of grammar and punctuation, and citation protocol. Students will study various short works of literature (stories, poems, plays, and essays) to orient writing tasks and will engage in conferencing as well as peer-editing workshops to work through various drafts.

Prerequisites: None. Open to students entering grades 9 and 10 only.

Course Dates/Time: June 24 – July 12; 10:30 a.m. – 12:30 p.m.

Credit Earned: None. This is a skill-building course that is ungraded and earns no credit.

Tuition: \$770

Lakeside Summer Research Institute

The Lakeside Summer Research Institute is a four-week summer research experience in which students engage in mentored research projects with tangible, externally-visible outcomes (e.g. educational blog posts, presentations at regional and national conferences, peer-reviewed publications) on Lakeside campus. This year the LSRI will be focused on two topics: 1) Avalanche Science and Safety Practices and 2) the Weather and Climate of Mt. Baker. Students will interact with professional scientists at University of Washington and the United States Forest Service. Interested students can earn at least 12 hours of Service Learning credit by participating in a day of trail maintenance and field work on Mt. Baker.

Successful applicants are responsible, motivated students in good academic standing at their current institution. They will have demonstrated facility with data analysis (e.g. managing, plotting, and summarizing data) in Excel or Python. Applications will be accepted until April 1. 4 students will be accepted for Summer 2019. Acceptance letters will be sent by April 15.

Prerequisites: One year of high-school lab science. This course is open to rising 10th-12th grade students.

Course Dates/Time: June 24 – July 19; 8:30 a.m. – 3:00 p.m.

Credit Earned: None. This is a skill-building course that is ungraded and earns no credit.

Tuition: \$1250