

PROVIDENCE HIGH SCHOOL

COURSE OFFERINGS CATALOG

2024-2025

Contents

Course Selection Process & Guidelines	3
Providence High School Mission & Philosophy	6
Values.....	6
Accreditation	7
Graduation Requirements	8
Graduation Requirements	9
Academic Information	11
English Department	17
Humanities	20
Mathematics Department	22
Physical Education & Comprehensive Wellness Department	26
Religious Studies Department.....	28
Science Department	31
Social Studies Department.....	38
Performing Arts Department.....	43
Visual Arts Department	48
World Languages Department	54
Cinema Arts Program.....	59
Medical Program.....	64
Technology Program.....	70

Course Selection Process & Guidelines

October/November: Student Interest Survey & Revision of Course Offering Catalogue

- Counseling Department and Curriculum & Instruction Committee submit proposals for new classes based on educational trends and student interest.
- Students complete the course interest survey *every other year*.
- Student Interest Survey results are reviewed & the Course Catalogue is revised.

January: Course Selection Kick-off & Electives Fair, Meetings with Counselors

- Be attentive to presentations by the Counselors.
- Attend Course Electives Fair to learn more about your options from instructors of those classes.
- Read ALL course descriptions & pre-requisites for those classes that interest you.
- Return Course Selection documents to Counselor by the deadline.

February: Course Selection & Registration, 1:1 Meetings with Counselors continued.

- Individual 1:1 meeting with your Counselor.
- Read & Initial Honors/AP Course Commitment Contract if applicable.
- Obtain all necessary recommendations for Honors and APs.
**NOTE: Pre-requisites are mandatory & FALL grades are used for approvals & recommendations.*
- Review final course selections with your Counselor & parent(s)/guardian(s).

March: Scheduling Begins

- First two weeks of March designated for add/drop requests to your Counselor
- Administration begins building the Master Schedule & hiring/staff process for next year.

May: Students receive confirmation of Course Requests for the upcoming school year.

June: Summer School

- Students enroll in any required recovery courses to make up credit for D & F grades.
- Students enroll in any required bridge courses to accelerate into upper-level, Honors, or A.P.

July: Preparation for the Upcoming School Year

- Students' Official Course Schedules are finalized & made available.
- Students should purchase all required texts & complete all required Summer Assignments.

Administration makes staffing decisions based on enrollment in specific courses. Electives run based on sufficient enrollment in the classes. We prioritize equitable class sizes and do not make changes based on teacher or block preference.

Subject Area	PHS Graduation Requirements	University of California Admission Requirements	California State University Requirements	Private College Requirements (varies by institution)
Religious Studies	4 years	-	-	-
Social Studies (30 credits)	3 years: World History, US History, 1 Semester of Gov. & 1 Semester of Econ	2 years: One year of World History, Cultures & Geography. One semester of US History & one semester of Gov/Civics. Additional courses strongly recommended.	2 years, must include US History Additional courses strongly recommended	2-3 years required; varies from school to school.
English (40 credits)	4 years	4 years required	4 years required	4 years required
Mathematics (30 credits)	3 years	3 years: Algebra, Algebra II and Geometry. 4 years strongly recommended.	3 years: Algebra, Algebra II and Geometry. 4 years strongly recommended.	3 years required. 4 years strongly recommended.
Science (30 credits)	3 years: Biology, Chemistry & a Science Elective of Student's Choice	2 years lab required w/ at least two out of the three foundational subjects of biology, chemistry & physics. 3 years recommended.	2 years lab science required w/ at least two of the three foundational subjects of biology, chemistry & physics. 3 years recommended.	Two years required. 4 years strongly recommended.
World Languages (20 credits)	2 years	2 years of same language. 3 years recommended.	2 years of same language. 3 years recommended.	2 years required. 3 years strongly recommended.
Fine Arts (10 credits)	1 year required	2 consecutive semesters (one year) of Fine Art	2 consecutive semesters (one year) of Fine Art	Varies depending on major declared.
Physical Education & Comprehensive Wellness (20 credits)	PE & Wellness + 10 Options: PHS Team Sport, PE Elective, or Verification of Outside Activities	-	-	-
Electives (25 credits)	5 semesters: Must include Capstone Experience	1 year required.	1 year required	1 year required

Providence High School Mission & Philosophy

Mission

As expressions of God's healing love, witnessed through the ministry of Jesus, we are steadfast in serving all, especially those who are poor and vulnerable.

Vision

As people of Providence, we practice joy, challenge ourselves intellectually, and commit to faithful service by valuing everyone as individuals within the healthiest possible learning community.

Outcomes

By realizing this vision, students, faculty, and staff are provided opportunities to explore their curiosities, cultivate their strengths, and use their voice in service to each other and the world.

Commitments

Providence will foster an educational program that prioritizes student health and relationships to develop graduates who know themselves and are intellectually and emotionally capable of championing causes that are relevant to them and the world they inhabit.

Values

Compassion

Jesus taught and healed with compassion for all. – Matthew 4:24

We reach out to those in need and offer comfort as Jesus did. We nurture the spiritual, emotional, and physical well-being of one another and those we serve. Through our healing presence, we accompany those who suffer.

Dignity

All people have been created in the image of God. – Genesis 1:27

We value, encourage and celebrate the gifts in one another. We respect the inherent dignity and worth of every individual. We recognize each interaction as a sacred encounter.

Justice

Act with justice, love with kindness and walk humbly with your God. – Micah 6:8

We foster a culture that promotes unity and reconciliation. We strive to care wisely for our people, resources and our earth. We stand in solidarity with the most vulnerable, working to remove the causes of oppression and promoting justice for all.

Excellence

Whatever you do, work at it with all your heart. – Colossians 3:23

We set the highest standards for ourselves and our ministries. Through transformation and innovation, we strive to improve the health and quality of life in our communities. We commit to compassionate, safe and reliable practices for the care of all.

Integrity

Let us love not merely with words or speech but with actions in truth. – 1 John 3:18

We hold ourselves accountable to do the right things for the right reasons. We speak the truth with courage and respect. We pursue authenticity with humility and simplicity

Accreditation

Providence enjoys full accreditation from the California Association of Independent Schools, the Western Association of Schools & Colleges, and the Western Catholic Educational Association.

Counseling Department

Our counselors serve as guides and advocates for our students in their academic, emotional, and social development. Students work closely with their school counselors for guidance to explore their interests and develop their strengths. They develop academic goals with the students and guide them through the course selection process, in addition to providing direction for enrichment and support in challenges.

Graduation Requirements

Providence High School offers a challenging college-preparatory academic program. To graduate from Providence, a student must pass all required courses. Students must make up a failed course in an accredited, UC-approved program. A grade of “D” is not an acceptable grade for college entrance, and therefore, must be made up. Graduation requirements are as follows:

Religious Studies	8 Semesters
English	8 Semesters
Social Studies	6 Semesters
Mathematics	6 Semesters, 8 Recommended
Sciences	6 Semesters, 8 Recommended
World Language*	4 Semesters, 6 Recommended (of the same language)
Physical Education**	4 Semesters
Fine Arts***	2 Semesters
Electives	5 Semesters
Capstone Experience	1 Semester (Capstone Project)

* Incoming freshmen who have been studying a language that we do not offer at Providence may qualify for approval to continue their studies in that language to fulfill PHS graduation requirements under the following conditions:

- the institution must be accredited through a nationally recognized organization.
- the course(s) must be UC-approved as the appropriate LOTE level(s)
- the family must take on the additional cost of the course; there is no tuition reduction from Providence

** 2 semesters of Boys or Girls PE, plus Advanced PE Electives, participation in Athletic Team Sports, and/or verification of outside athletic activities to complete the 20 credit hours required is required for the class of 2025 and 2026. The class of 2027 will need to complete 15 credit hours.

*** 2 semesters of fine art in the same discipline (visual, performing, or interdisciplinary).

Graduation Requirements

Serving as expressions of God's healing love, especially to those who are poor and vulnerable, is integral to our mission. Therefore, Christian Service is also a graduation requirement at Providence High School:

9th Grade—Freshman Year 10 hours

10th Grade—Sophomore Year 20 hours

11th Grade—Junior Year 30 hours

12th Grade—Senior Year 40 hours

The Valedictorian and Salutatorian of any graduating class must have attended the eight semesters at PHS to be awarded this honor. Honors are based on the total weighted PHS GPA for all eight semesters of studies, with no appreciable drop in GPA during the eighth semester of studies.

Summa Cum Laude 3.75 and above

Magna Cum Laude 3.50 to 3.74

Cum Laude 3.25 to 3.49

Subject Requirements	9 th Grade	10 th Grade	11 th Grade	12 th Grade	
Religion (8 semesters/40 credits)	Christian Formation & Mystery of Jesus Christ	Mission of Jesus Christ & Mission of the Church	Sacraments & Social Justice	World Religions & Christian Lifestyles	
English (8 semesters/40 credits)	English I or English I Honors	English II or English II Honors	American Literature or AP Language & Composition	English IV or AP Literature & Composition	
Social Studies (6 semesters/30 credits)	-	World History & Geography or AP World History	US History or AP US History	US Gov. & Politics or AP Gov. (One Year)	Economics or AP Macro (One Year)
Science (6 semesters/30 credits)	Biology or Biology Honors	AP Biology, Chemistry, or Chemistry Honors	3 rd Year Science Elective Required	Elective	
Math (6 semesters/30 credits)	Algebra I, Algebra I Honors, Geometry, or Geometry Honors	Geometry, Geometry Honors, Algebra II/Trig, or Algebra II Honors/Trig	Algebra II, Algebra II Hon/Trig, Pre-Calculus, or Pre- Calculus Honors	Elective	
World Language (4 semesters/20 credits)	Spanish, French, or American Sign Language	Spanish I, II, III, Honors, French I, II, III, Honors, or ASL I, II	Elective <i>3rd year of Language strongly recommended</i>	Elective	
Fine Arts (2 semesters of the same discipline/10 credits)	Drama, Choir, Art I, or Ceramics	Elective <i>Program electives would fill this slot</i>	Elective <i>Program electives would fill this slot</i>	Elective <i>Program electives would fill this slot</i>	
Physical Education & Comprehensive Wellness (2 semesters +5-10 credits)	Physical Education & Comprehensive Wellness *	-	-	-	

Academic Information

Providence offers Advanced Placement and Honors courses in subject areas throughout the curriculum. These Honors courses provide the students with an opportunity for greater intellectual inquiry and discovery. Many colleges and universities give academic credit to high school students who successfully complete Advanced Placement Exams. Providence offers Advanced Placement courses in Mathematics, Science, Information Systems, World Language, History, English, and Art. In addition to the college preparatory courses required for graduation, Providence offers a range of elective courses to help students discover what inspires them.

Honor Roll

Students earn their place on the Honors Lists by achieving a grade point average of 3.75 or higher for the semester. All courses on a student's schedule are factored into a student's internal PHS GPA.

Honors Level Courses

Providence High School acknowledges Honors courses (weighted) for the Providence High School GPA. All Honors courses are five-point classes (A=5, B=4, C=3, D=1, F=0), and therefore may enable the student to achieve a PHS GPA of above 4.0. A student desiring to take any of these courses can expect in-depth reading and writing assignments and project work that is over and above the regular college preparatory course work done at the same grade level.

Advanced Placement Program

Through the College Board's Advanced Placement (AP) program, students can qualify for college credit. PHS presently offers AP courses in the following: Art History, Biology, Calculus, Chemistry, Computer Science, English Language and Composition, English Literature and Composition, Environmental Science, US Government & Politics, Macroeconomics, Physics, Psychology, Spanish, Art & Design, U.S. History, and World History.

All Advanced Placement courses at PHS are five-point classes (A=5, B=4, C=3, D=1, F=0). A separate Honors & AP Course Commitment Contract outlines the specific requirements and expectations for all A.P. students. All students enrolled in these courses are required to take the Advanced Placement exam. **An exam fee will be charged for each AP course taken.**

Please Note: Not all colleges and universities offer course credit for scores of 3, 4, or even 5 on the College Board's official AP Exam. Check the College Board's database to see which institutions do offer course credit: www.collegeboard.org/apcreditpolicy

Admissions to Advanced Placement and Honors Classes

All courses at PHS assure a strong preparation for post-secondary studies at colleges and universities. We do, however, want to encourage those students capable of an extra challenge to take Honors and AP courses. Generally, a student takes no more than three AP courses in one year. Students are required to meet the prerequisites and class expectations for every Honors or AP class they are considering.

Admission into these classes will be based on completion of pre-requisite.

Required Summer Assignment

Summer work is a requirement of most Honors and Advanced Placement courses. Individual instructors determine the grading process for summer work, which is due upon the start of the academic school year and is part of the overall semester grade for the course. If a student is unable or unwilling to complete this summer assignment, he/she will not be eligible for the relevant Honors, A.P., or upper-division elective.

Dual Enrollment Program

For some students this is an avenue of developing and studying an area of interest that is over and above, or outside the scope of courses taught at PHS. A student can earn credit for work done under the guidance of an instructor in the field of the student's study and with the approval of the syllabus for study by the Associate Principal. A student and parent/guardian must sign an agreement as to the course of studies, the manner and time in which the work will be done and how this work will be assessed. The progress of a student will be given at the "Progress Report" date, along with all other courses that are evaluated at that time. For students who are capable and interested in a specific topic within a particular discipline, the independent study opportunity provides a way for motivated students to advance their understanding and potentially earn course credit.

Elective Programs and Co-Curricular Activities

Our wide variety of programs and co-curricular activities provide students with the opportunity for travel, public performance, and competition with other students. Such programs include Athletic Sports Teams, Academic Decathlon, Art, Drama/Theater, Choir, Instrumental Music, Model United Nations, Mock Trial, Yearbook, and our Programs.

College

College exploration should be about discovering one's interests, pursuing opportunities for deeper exploration, and meaningfully reflecting on how those experiences shape one's perspective of the world and our place in it.

In the same way that we want our Pioneers to feel that they belong here, we focus college advising on guiding our graduates to find colleges and universities that are the right fit, where they will feel they belong. That journey is a lifelong process, and the college exploration phase of that journey begins at Providence in the spring semester of freshman year with the introduction to Naviance, our college planning system.

A student's acceptance into college depends upon many factors: the academic record as measured by the grade point average, the course rigor selected (honors/AP's), college entrance exams (if required), letters of recommendation, involvement in co-curricular activities, demonstrated leadership and community contributions. These are just a few of the many factors considered in the admission process. The following pages outline course requirements for a variety of institutions. Before making decisions about a course of study, students are encouraged to seek guidance from parents, teachers, and counselors. Naviance is essential for some initial college searching and data. However, students should always visit the admissions web page for colleges to which they are interested in applying for the most up-to-date information.

University of California Requirements

Learn More: www.universityofcalifornia.edu/admissions

A student intending to enroll in any of the 9 UC schools must meet the minimum requirement (15 units) described below to be eligible for freshmen admission to the University of California, with at least 11 completed prior to the beginning of senior year. A unit is equal to an academic year, or two semesters, of study.

The University accepts only "a-g" courses that appear on the official UC Certified Course List for the California high school the student attended. The "a-g" subject requirements are as follows:

- a. History — 2 years required
- b. English — 4 years required
- c. Mathematics — 3 years required; 4 years recommended
- d. Laboratory Science — 2 years required; 3 years recommended
- e. World Language — 2 years of the same language required; 3 years recommended
- f. Fine Arts — 1 year required of the same fine art: visual, performing, or interdisciplinary
- g. College Preparatory Electives — 1 year required

UC Scholarship Requirement

Earn a grade point average (GPA) of 3.0 or better (3.4 for non-residents) in these courses with no grade lower than a C.

"D" and "F" grades in the "A-G" courses must be made-up in a credit recovery course to repair the student's GPA and bolster their knowledge in that subject *before the next school year*. The UC system will not factor in grades for repeated courses in which the student initially earned a grade of "C." Though

grades in the “D” range suffice for a CA high school diploma, they are unacceptable for 4-year college admissions and therefore Providence urges students to repair any grade lower than “C-.”

California State University Requirements:

Learn More: www.csumentor.edu

First-time freshmen must meet the following eligibility requirements

- be a high school graduate or equivalent
- complete the 15-unit comprehensive “a-g” pattern of college preparatory course
- earn a qualifying “a-g” grade point average (GPA) as described below.

California residents and graduates of California high schools will be eligible for admission by earning a 2.50 or greater “a-g” GPA.

Any California high school graduate or resident of California earning a GPA between 2.00 and 2.49 may be evaluated for admission based upon supplemental factors.

Certified Courses for Admission into the UC and Cal State System

It is important to note that the University of California and the Cal State System certify several courses offered at Providence High School as acceptable for admission into their systems. Courses that are not designated as **UC approved* in this course catalog will NOT be used by the UC and Cal State Systems in calculating the admission GPA.

The following courses are certified by the University of California and Cal State System as Honor level or Advanced Placement and receive extra Honors credit. (A=5, B=4, C=3)

History: AP US Government, AP US History, AP World History

English: English II Honors, AP Language & Composition, AP English & Composition

Mathematics: AP Calculus AB, AP Calculus BC, Pre-Calculus Honors, AP Computer Science A

Lab Sciences: AP Biology, Chemistry Honors, AP Chemistry, AP Environmental Science, AP Physics 1,

World Languages: French III Honors, Spanish III Honors, Latin III Honors, AP Spanish Language

Visual Arts: AP Art & Design: Drawing, AP Art: 2-D Design, AP Art: 3-D Design, AP Art History

Electives: AP Macroeconomics, AP Psychology

Grade Point Average for the UC and Cal State System

The UC and Cal State system recalculate a student’s grade point average using only approved “a-g” courses. A UC/CS GPA is calculated by assigning point values to the grades earned, totaling the points and dividing the total by the number of “a-g” courses. Points are assigned as follows: A=4 points, B=3 points, C=2 points, D=1 point, and F=0 points. Please note that plus (+) and minus (-) marks are not calculated in the grade point average.

Only the grades earned in “a-g” subjects in the 10th and 11th grades - including summer sessions - are calculated into preliminary UC/CS GPAs. *Courses taken in ninth grade can be used to meet the Subject Requirement if a grade of C or better was earned, but they will not be used to calculate the GPA.*

The UC and Cal State System assigns extra points for up to eight semesters of **approved** Honors and AP courses taken in the last three years of high school: A=5 points, B=4 points, C=3 points. No more than two approved honors level courses taken in the tenth grade may be given extra points. Extra points cannot be earned for Honors or Advanced Placement courses where the grade of "D" was received.

Private Universities and Colleges

Admission to most universities and colleges is based on the following:

1. Scholastic Record (Grades in college prep courses)
2. Strength of Curriculum (Rigor of courses selected)
3. College Entrance Exams (*if required*, SAT and/or ACT scores)
4. Essays (Written by the students themselves for college admission)
5. Demonstrated Interest (Student contact, campus visits, contact with representative, etc.)
6. Letters of recommendation (Teacher and Counselor)
7. Co-curricular activities (community contributions, meaningful service, initiative, and leadership)

Students should be aware that requirements for institutions and majors vary. Students with a specific school in mind should consult that school's admission website and admissions representatives to determine requirements.

California Community Colleges

Any student who has graduated from high school may gain admission into a community college. However, once accepted, a student must maintain a passing average. Many students attend two years at community college before transferring to a four-year college for a variety of reasons. Community colleges can offer academic, financial, and social benefits and prepare students to improve their prospects or complete their degrees at a wide range of 4-year universities.

Students who do not qualify for admission into a four-year institution upon graduation may enroll in "transfer courses" at the community college. If a student attains at least a "C" grade in those courses, they may transfer to a four-year college with the standing of a junior after two years or 60 units. Some universities call for a higher-grade average for transfer students from the community colleges, requirements vary.

English Department

#10810 - ENGLISH I: College Preparatory Freshmen Composition (9th Grade)

10 Credits | One Year

This course surveys a variety of genres, with an emphasis in literary analysis, reading comprehension, grammar skills and vocabulary building that will assist students in the acquisition of composition skills necessary for clarity in their compositions. By the end of the ninth grade, students can compose a multi-paragraph essay, consisting of an introduction that includes a thesis statement, body paragraphs that respond to the thesis and ending with a concluding paragraph.

**UC approved; meets the 'b' requirement*

#10812 - ENGLISH I HONORS: Freshman Composition (9th Grade)

10 Credits | One Year

Prerequisites: placement test given after admission, teacher recommendations, and excellent performance in prior English courses

This course is the same as English I but progresses at an accelerated pace with more rigorous standards and covers more content. It too emphasizes reading comprehension, critical thinking, grammar skills and vocabulary building that will assist students in the acquisition of composition skills necessary to compose the body paragraph and the multi-paragraph essay. Students will also learn study skills and note-taking skills necessary to succeed and thrive in college preparatory academics.

**UC approved; meets the 'b' requirement*

#10820 - ENGLISH II: College Preparatory World Literature & Composition (10th Grade)

10 Credits | One Year

English II includes classical and contemporary selections from authors around the world. Equally important is the continued emphasis on expository writing, namely, the multi-paragraph essay, while also developing the tools of effective communication, critical thinking skills and analysis.

**UC approved; meets the 'b' requirement*

#10822 - ENGLISH II HONORS: World Literature & Composition (10th Grade)

10 Credits | One Year

Prerequisites: A in English I (#10810), or B or higher in English I Honors (#10812);

English II Honors follows the course of study described for English II in World Literature at an accelerated pace and with higher standards for textual analysis and composition skills. Critical thinking and reading skills will develop in analytical and expository essays geared towards preparing students for acceleration into AP Language. Clarity in reading, thinking, writing, and oral communication is a major goal for this course.

**UC approved; meets the 'b' requirement*

**#10830 - ENGLISH III: College Preparatory American Literature & Composition
(11th Grade)**

10 Credits | One Year

In English III, students will explore questions surrounding American identity by studying literature as a crucial manifestation of and catalyst for North American culture. Students are taught to synthesize information from multiple sources and are required to learn how to correctly cite sources for academic writing. Students will be exposed to all modes of writing: persuasive, descriptive, and narrative.

**UC approved; meets the 'b' requirement*

**#10832 - ENGLISH III: Advanced Placement English Language and Composition
(11th Grade)**

10 Credits | One Year

Prerequisites: A in English II (#10820), or B or higher in English Honors II (#10822)

This course focuses on non-fiction and rhetorical analysis. In this regard, critical thinking and reading skills are essential and continue to be honed. Students are expected to write powerfully and concisely as they learn techniques of stylistic analysis, rhetorical analysis, and synthesis of information from a variety of sources in an argumentative essay. There is an AP exam fee for this course.

**UC approved; meets the 'b' requirement*

#10840 - ENGLISH IV: College Preparatory English Literature & Composition (12th Grade)

10 Credits | One Year

Students will read classic and modern works of fiction as well as various shorter works of non-fiction related to current events and topics relevant to students' personal interests. They will read and write both poetry and prose. Throughout the course of the year, students will revisit and learn more about narrative forms, literary analysis, and informational writing modes. Students will also practice their public speaking and listening to polish their communication skills.

**UC approved; meets the 'b' requirement*

**#10842 - ENGLISH IV: Advanced Placement English Literature & Composition
(12th Grade)**

10 Credits | One Year

Prerequisites: A in English III. (#10830), or B or higher in AP Lang. & Comp. (#10832)in

This course is taught at a college level and offers an in-depth study of various genres of fiction and poetry. Students will learn about and be able to explain how socio-economic movements and psychological theories have shaped literary analysis. Students will read and analyze sophisticated works from classical to contemporary times with a degree of emphasis on

literature. Students continue to develop their analytical writing skills with close readings and consideration of literary criticism from scholarly articles and other outside academic resources.

**UC approved; meets the 'b' requirement*

Humanities

#50690 – ACADEMIC DECATHLON

5 Credits | One Semester

Academic Decathlon is a fall semester course for those students who wish to compete as members of the PHS Academic Decathlon team. The USADA provides the curriculum each summer and so it varies from year to year. Team members must master literature, science, math, social studies, art and music relevant to the assigned theme. In addition to enrollment in this class, team members will be expected to attend all weekly study sessions as well as the summer camp and weekend /vacation study sessions.

The time commitment is a serious one, so students are asked to weigh their other co-curricular activities carefully, such as participating in a fall sports team, choir, the fall play, or other activities that might conflict with morning or afternoon practice sessions. There is a fee for this course.

**UC approved; meets the 'g' requirement*

#10870 – ADVANCED JOURNALISM (YEARBOOK – 10th, 11th, & 12th Grade)

10 Credits | One Year

Prerequisite: Completed course application; and instructor approval

Advanced Journalism is a two-semester course that allows students to develop the skills necessary to create and produce the Esprit yearbook. Students will be knowledgeable in photojournalism, a wide range of design concepts, journalistic writing skills, interviewing techniques, research, and analysis of information. Students in this course are required to learn layout design, conduct interviews with members of the Providence community; write and fit copy, captions, and headlines; learn photojournalism techniques; fundraise, and sell senior tribute ads. Individual responsibility is essential toward the completion of assignments for deadlines. Students learn to collaborate as a team to create a cohesive publication. Students can also accept leadership positions and develop executive skills as they build the yearbook. This course can be repeated by students to further develop their journalistic, design, executive, and leadership skills. Each year that a student takes this course they will be given greater leadership and responsibility to develop students new to the yearbook staff.

**UC approved; meets the 'g' requirement*

#10002 - PUBLIC SPEAKING & PRESENTATION DESIGN

5 Credits | Fall Semester

This innovative performance-based elective course offers students of all grades the opportunity to develop, practice and polish the valuable life skills of communication and presentation design. Students research topics of their choosing to compose and present various speeches and talks, collaborating in a workshop setting to critique and support one another. We will study the important elements of effective public speaking through the analysis of famous public speakers as well as speeches on a variety of topics, including popular TED talks. This class will

also explore the creative use of visual presentations through various digital tools. The course will culminate in a performance event that will give the students an opportunity to present their best talks to the Providence community.

**UC approved meets the 'g' requirement*

#XSP11 – CAPSTONE EXPERIENCE (SENIOR PROJECTS – 12th Grade)

5 Credits | Spring Semester

Seniors can schedule the Senior Projects graduation requirement into their regular rotation of classes within the school day or include it as an additional block in their schedule. The Senior Capstone Project culminates their academic, intellectual, and personal journey at Providence. Through their research, fieldwork, and product development, students refine the research, writing, interpersonal communication, and design skills they have developed throughout their three and a half years in high school. Students hone those transferable skills and connect their learning to platforms and issues beyond the classroom while exploring a specific major, career, or field of interest. The real-world relevance and career-specific knowledge empowers students with the confidence to embark on the next phase of their academic and professional journey.

**Graduation Requirement for all Seniors - UC approved meets the 'g' requirement*

Mathematics Department

#10510 - ALGEBRA I (9th Grade)

10 Credits | One Year

This foundational course in college preparatory mathematics includes an introduction to the language of algebra, polynomials, factoring, inequalities, functions, and relations, open sentences in one, and two variables, rational and irrational numbers, quadratic functions and equations, and word problems.

**UC approved; meets the 'c' requirement*

#10512 - ALGEBRA I HONORS (9th Grade)

10 Credits | One Year

Prerequisites: Departmental approval based on PHS Math Placement Test

The goal of this course is to offer a more in-depth study of all the concepts covered in the Algebra I course. Mathematical reasoning is emphasized in this course.

**UC approved; meets the 'c' requirement*

#10520 – GEOMETRY

10 Credits | One Year

Prerequisites: Algebra I (#10510); or departmental approval based on PHS Math Placement Test

This course includes an introduction to deductive reasoning, basic postulates and theorems, lines and angles, parallel lines and planes, congruent triangles, inequalities in triangles, quadrilaterals, similarity, right triangles and right triangle trigonometry, circles, area, and coordinate geometry.

**UC approved; meets the 'c' requirement*

#10522 – GEOMETRY HONORS

10 Credits | One Year

Prerequisites: B or higher in Algebra I Honors (#10512); **OR** grade of A or higher in Algebra I in the Fall semester (#10510)

The goal of this course is to offer a more in-depth study of the concepts covered in the college preparatory geometry course #10520. Mathematical reasoning and application are emphasized in this course plus extensive practice in writing proofs. This course has a mandatory summer work packet or a summer assignment.

**UC approved; meets the 'c' requirement*

#10530 - ALGEBRA II

10 Credits | One Year

Basic Concepts of Algebra, Inequalities, Linear Equations applications and their Graphs, Linear Systems, Functions and Relations, Products and Factors of Polynomials, Applications of Factoring, Rational Expressions, Using the Laws of Exponents, Problem solving Using Fractional Equations, Irrational and Complex Numbers, Roots and Radicals, Quadratic Equations and Functions, Quadratic Functions and their Graphs, Variations, Solving Polynomial Equations, Exponential and Logarithmic Functions and their Applications.

This course requires a TI-83, TI-84 or TI-89 family of graphing calculator.

**UC approved; meets the 'c' requirement*

#10532 - ALGEBRA II/ TRIGONOMETRY HONORS (11th Grade)

10 Credits | One Year

Prerequisites: *B or higher in Geometry Honors Fall semester (#10522); OR grade of A or higher in Geometry Fall semester (#10520)*

Algebra II/Trigonometry Honors is an advanced course that offers a more in-depth at the Honors level study of the concepts covered in the Algebra II College Prep course. More content is covered at this level, including Trigonometric Identities, and Sequence and Series. This course has a mandatory summer work packet or summer assignment. TI-83, TI-84 or TI-89 family of graphing calculator required.

**UC approved; meets the 'c' requirement*

#10540 - PRE-CALCULUS (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *B or higher in Algebra II Fall semester (#10530). Intro to Trigonometry summer enrichment course is highly recommended to be better prepared for the rigors of the Pre-Calculus course.*

Functions and their Graphs; Graphing and Analysis of Linear Equations, Graphing and Analysis of Cubic and Higher Degree Functions, Long and Synthetic Division, Exponential and Logarithmic Functions, Graphing. Trigonometric Functions of Real Number, Trigonometric Graphs, Trigonometric Functions of Angles, Trigonometry of right Triangles. The Laws of Sine and Cosine, Analytic Trigonometry, & Solving of Trigonometric Identities. This course has a mandatory summer work packet and a TI-83, TI-84 or TI-89 family of graphing calculator is needed.

**UC approved; meets the 'c' requirement*

#10542 - PRE-CALCULUS HONORS (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *B or higher in Algebra II/Trig Honors Fall semester (#10532); OR grade of A in Algebra II Fall semester (#10530).*

The Honors course offers a more in-depth study of the concepts covered in the College Prep course. Students are expected to delve deeper into mathematical functions and problem solving. In addition, students in this course will cover concepts, such as Vectors. Functions and their Graphs; Graphing and Analysis of Linear Equations, Graphing and Analysis of Cubic and Higher Degree Functions, Synthetic Division, Exponential and Logarithmic Functions, Graphing and Analysis of Conic Functions and Sequences, Series and Combinations. Trigonometric Functions of Real Number, Trigonometric Graphs, Trigonometric Functions of Angles, and Trigonometry of right Triangles. The Laws of Sine and Cosine, Analytic Trigonometry, Solving of Trigonometric Identities, and polar coordinates and their graphs. This course has a mandatory summer work packet and a TI-83, TI-84 or TI-89 family of graphing calculator is required.

**UC approved; meets the 'c' requirement*

#10554 - CALCULUS (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *B or higher in Pre-Calculus Fall semester (#10540); OR grade of B in Pre-Calculus Honors Fall semester (#10542); OR B or higher in Algebra II/Trigonometry Honors Fall semester (#10532) AND successful completion of a UC approved Pre-Calculus course*

An intermediate course to introduce the basics of calculus to capable mathematics students. The topics to be covered in the first semester include functions, the rate of change of a function, limits, the derivative and its applications, and continuity. In the second semester, topics of investigation include: integration, area under the curve, applications of the integral, natural logarithms, and exponential functions, inverse trigonometric functions, methods of integration, and plane analytic geometry. This course has a mandatory summer work packet and a TI-83, TI-84 or TI-89 family of graphing calculator is required.

**UC approved; meets the 'c' requirement*

#10550 - AP CALCULUS AB (11th & 12th Grade)

10 Credits | One Year

Recommended Prerequisites: *Current instructor recommendation; A or higher in Pre-Calculus Fall semester (#10540); OR grade of B+ or higher in Pre-Calculus Honors Fall semester (#10542).*

An advanced course to study Calculus for the most capable mathematics students. The topics to be covered include functions, the rate of change of a function, limits, the derivative and its

applications and continuity. Second semester topics for investigation include integration and area under the curve, applications of the integral, natural logarithms and exponential functions, inverse trigonometric functions, methods of integration, and plane analytic geometry. There is an AP exam fee for this course. This course has a mandatory summer work packet and a TI-83, TI-84 or TI-89 family of graphing calculator is required.

**UC approved; meets the 'c' requirement*

#10555 - AP CALCULUS BC (11th & 12th Grade)
10 Credits | One Year

Recommended Prerequisites: A or higher in AB Calculus (#10550)

Calculus BC is a college-level course for the most capable student. Students who take this course are expected to take the Advanced Placement Exam in May. The following topics are included: functions, limits, derivatives and tangent lines, applications of derivatives, anti-derivatives, integrals and the area problem, applications of integrals, exponential functions, elementary differential equations including slope fields and Euler's Method, parametric representations including polar coordinates, sequences and series, and Taylor Polynomials. There is an AP exam fee for this course. This course has a summer work packet or summer assignment and a TI-83, TI-84 or TI-89 family of graphing calculator is required.

**UC approved; meets the 'c' requirement*

#10533 – ADVANCED ALGEBRA with FINANCIAL APPLICATIONS (11th & 12th Grade)
10 Credits | One Year

Prerequisites: Algebra II (#10530 or #10532)

Financial Algebra is an algebra-based, technology-rich program that uses Algebra II skills in a financial setting. It also introduces students to selected topics from Algebra II and Pre-calculus in an ability-appropriate way, while covering the study of taxes, insurance, banking, budgeting, investing, home ownership, auto ownership, credit, and more. It offers all students the opportunity to extend and practice their algebra mechanics and problem-solving skills in an age-level interest scenario.

**UC approved; meets the 'c' requirement*

Physical Education & Comprehensive Wellness Department

#10910 & #10920 - PHYSICAL EDUCATION & COMPREHENSIVE WELLNESS

***Required for 9th Grade**

10 Credits | One Year

We believe in a comprehensive and holistic approach to student well-being. Therefore, we focus on four pillars of health: physical, social, mental, and emotional well-being. For physical health, the focus is on introducing students to various exercise techniques and teaching them sports such as volleyball, soccer, basketball, baseball/softball and other team fitness games such as ultimate frisbee, team handball, and kickball. In our unit on social health, we focus on relationship building, conflict resolution, and teamwork. For mental health we focus on skills such as positive coping mechanisms, stress management, sleep patterns, yoga, and meditation. Then our unit on emotional health focuses on self-care, building self-esteem, advocacy, and resiliency techniques. All of this is achieved with collaboration from our counseling department and partnerships with programs such as #OneLove. The classes and sections are delineated by biological sex and gender in the freshman year to provide a safe and comfortable environment for students to learn and share. At Providence, PE & Wellness is much more than just exercising the body; it is about building a strong foundation for the overall health and success of our students.

#10954 - CROSS TRAINING

10 Credits (5 per semester) | One Year or One Semester

Prerequisites: Boys' (10910) or Girls' (10920) PE & WELLNESS

Students will learn advanced weight training techniques and the newest concepts in strength and muscle development. Students will spend each class period working on their personalized training regimen. There is a strict maximum capacity of 15 students per semester for this course.

#10960 – LIFETIME FITNESS

10 Credits (5 per semester) | One Year or One Semester

Prerequisites: Boys' (10910) or Girls' (10920) PE & WELLNESS

This course is designed to provide students with opportunities to engage in a wide variety of activities to develop a lifelong fitness program. Exercises will focus on flexibility, muscular strength and endurance, and cardiovascular endurance. Activities can include jump rope, running, aerobics, cardio kickboxing, light-weight training and calisthenics. A secondary focus on mental and emotional health will be a major component of this course. Topics covered will be Meditation, Mindfulness, Journaling, and discussion of mental & emotional health issues

common in teenage years. There is a strict maximum capacity of 15 students per semester for this course.

#10788 – DANCE I – MOVEMENT EXPLORATION (all levels)

10 Credits | One Year

Over the course of the year, students will learn the foundational techniques of multiple dance styles: ballet, jazz, modern, contemporary and hip hop, with an emphasis on correct body alignment, improving flexibility, strength and conditioning, as well as expression and developing their own artistry. In addition, there will be a focus on creating your own work and choreography.

*This class is a fine art credit that can serve to fulfill the PE requirement as well, culminating in at least one performance opportunity, with the possibility for more. No prior dance training necessary.

**UC approved; meets the 'f' requirement*

#10970 – TEAM SPORTS

5 Credits | One Season

Students who participate in a season on a Providence Athletic Team earn 5 credits per season towards the total PE & Wellness credits required for graduation. The full list of Team Sports can be found on our public website each year and includes Girls Volleyball, Girls Basketball, Boys Basketball, Golf, Tennis, Equestrian, Boys Soccer, Girls Soccer, Cross Country, Track & Field, Cheer, Baseball, & Softball. Students can also obtain verification of PE credit through outside activities that meet the requirements. Students interested in outside activities for PE credits beyond freshman year should reach out to their Academic Counselor.

#10714 - Advanced Team Sports

5 Credits | One Year or One Semester

Team sports is a course designed for 10th, 11th and 12th grade students who enjoy sports such as baseball, basketball, football, soccer, softball and similar team sports. Freshmen courses teach the basics of team sports, this course will fine tune and advance the students' knowledge of the sport and will give them the opportunity to further explore more complex aspects of the sport. Students will be taught advanced tactics of each sport as well as more complex skills associated with the sport. Tournament style competition will be a part of each sports study.

**PENDING UC approval to meet the 'f' requirement*

Religious Studies Department

#10210 - CHRISTIAN FORMATION (9th Grade)

5 Credits | Fall Semester

An examination of the history, literature, and teaching of the Old Testament/Hebrew Scriptures with special consideration for those issues affecting the Christian faith and the New Testament. In the first unit of this course looks at the first chapters of Genesis and then covers the basics of Revelation and biblical interpretation. The second, third and fourth units continue sequentially through the Old Testament. This allows students to have a deep understanding of God's Revelation through the Old Testament. The final unit is a brief introduction to the New Testament foreshadowing Jesus Christ as the fulfillment of salvation history. Each unit focuses on a different section of the Old Testament, requiring students to look into and understand significant portions of the Bible. The meaning of these biblical texts is then explored as students begin learning biblical interpretation, or exegesis.

#10215 - THE MYSTERY OF JESUS (9th Grade)

5 Credits | Spring Semester

An examination of the history, literature, and teaching of the New Testament/Christian Scriptures with special consideration of the Gospels. The first unit of this course focuses on getting to know Jesus as the fully human, fully Divine Son of God by exploring the synoptic Gospels and the Letters of Saint Paul. The second unit explores Jesus' divinity, with an emphasis on the Gospel of John. The third unit looks at Jesus as the ultimate Revelation of God. The final unit looks at Christians personal call to holiness, service, and witness to the saving mission of Jesus Christ. This allows students to have a deep understanding of God's Revelation through the New Testament. Each unit focuses on a different section of the New Testament, requiring students to read significant portions of the Bible. The meaning of these biblical texts is then explored as students continue developing their biblical interpretation, or exegesis, skills.

#10220 - THE MISSION OF JESUS CHRIST (10th Grade)

5 Credits | Fall Semester

This course is designed to help students better understand what it means for Christians to be disciples of Jesus Christ, to be more open to the Holy Spirit, and to grow stronger in their faith in God. This can only be achieved by enabling the student to explore and discover the truth contained within the word of God as spoken through scripture tradition and the teachings of the church. Knowledge of the truth then should lead students to action, that is, to live the Christian tenets and universal human values in their daily lives.

#10225 - THE MISSION OF THE CHURCH (10th Grade)

5 Credits | Spring Semester

This course is designed to enable the students to explore and grow in their understanding of the mission of the Church and come to appreciate that in and through the Church they encounter Jesus Christ. They will come to understand why the Church is the living body of Christ on earth. By exploring the meaning of the reality that the Church is both divine and human, visible and invisible, the student will learn not so much about events in the life of the Church as about the sacred nature of the mystery of the Church and what part they play in its mission.

#10230 - CELEBRATING SACRAMENTS (11th Grade)

5 Credits | Fall Semester

This course offers the students an opportunity to explore the rich tradition of sacramental theology and practice that is fundamental in Catholicism. In their encounter with this essential dimension of Catholic faith, students can better appreciate the significance of the sacraments and better understand the relationship each person has with the Divine.

#10235 - SOCIAL JUSTICE (11th Grade)

5 Credits | Spring Semester

This course offers the students an opportunity to study the origins and development of Catholic social justice tradition. The first focus will be the gospels demand for justice and compassion in society. Secondly, students will be introduced to the long history of the Church's work for a society reflecting gospel values. As part of this study, the class will review the social justice documents which the popes and the bishops have developed, using primary and secondary sources to aid understanding.

#10250 - WORLD RELIGIONS (12th Grade)

5 Credits | Fall Semester

This course helps students understand the way the Catholic Church relates to non-Catholic religions of the world. Students are exposed to various religious traditions and belief systems. This includes religions of the East (Buddhism and Hinduism) and those of the West (Judaism, Christianity, and Islam). This course is also intended to help them recognize the ways in which other systems of belief and practice differ from the Catholic faith.

**UC approved; meets the 'g' requirement*

#10255 - CHRISTIAN LIFESTYLES (12th Grade)

5 Credits | Spring Semester

This course is designed to help students understand the call to live a mature Christian lifestyle. A single life will be discussed as a possible freely chosen option in our society. Marriage will be studied as a sacrament and an institution. Religious vocations are also studied as options in the Catholic faith. Students reflect on and discuss how to live out the values of Compassion, Dignity, Justice, Excellence, and Integrity.

Science Department

#10620 - BIOLOGY (9th Grade)

10 Credits | One Year

This first-year laboratory science course examines life at all levels of organization in living organisms through the study of molecular and cellular biology, energy flow in cells and in food webs including recycling of nutrients through ecosystems, genetics, evolution of organisms, ecology, population growth and diversity, and current life science issues such as biotechnology and genetic engineering. Through laboratory work and field studies, students observe, measure, experiment, analyze and demonstrate actual scientific phenomena and understand the significance of the scientific method. Students participate in discussions on socioeconomic aspects of life including global climate, pollution, and nature conservation. This course is a graduation requirement.

**UC approved; meets the 'd' requirement*

#10622 - BIOLOGY HONORS (9th & 10th Grade)

10 Credits | One Year

Prerequisites: *B or higher in previous Math & English courses; OR B or better in English I (#10810 or #10812) and B or better in Algebra I (#10510 or #10512)*

The Honors Biology course includes an in-depth study of living things and how they function in a changing environment. Emphasis is on the structure and biochemistry of cells, plant and animal physiology, genetics, and ecology with a focus on homeostasis and community interactions. In addition to the general biology description of the course listed above, honors students are further challenged with problem solving labs, forming hypotheses, designing experiments, and analyzing data.

Students are exposed to an advanced level of understanding of biotechnology. Key concepts and unifying themes are presented to help students develop a coherent view of life and to understand the importance of biological sciences in society. This course has a summer work packet or summer assignment.

**UC approved; meets the 'd' requirement*

#10650 – AP Biology (11th & 12th Grade)

10 Credits | One Year

Prerequisites: B or higher in Honors Biology (#10622); OR A in Biology (#10620)

This elective biology course is highly recommended for students pursuing the challenge of a college level curriculum who have demonstrated an interest, motivation, and commitment and have completed rigorous course work in the vertical alignment of courses in science leading to this higher level course. From molecules and cells to ecosystems and the biosphere, the course deals with advanced studies in cell and molecular biology, cell chemistry, energy in living systems, genetics, heredity, evolution, population and diversity, and ecology. The curriculum also provides enhanced study of the structure and function of the human body using technology and website access to Pearson Higher Education Learning. The course is intended to broaden the students' backgrounds in the biological sciences. The class prepares the student for the College Board's AP Biology exam. This course has a summer work packet or summer assignment. There is an AP exam fee for this course.

**UC approved; meets the 'd' requirement*

#10630 - CHEMISTRY (10th Grade)

10 Credits | One Year

Prerequisites: Biology (#10620 or #10622); Algebra I (#10510 or #10512)

This laboratory course investigates the chemical nature of matter and energy. The broad selection of topics is intended to provide the student with a strong foundation for further scientific study. The laboratory work is designed to give the student an opportunity for both observation and investigation of matter and energy. Topics of study include measurement, structure of atoms, periodic table trends, bonding, chemical properties and reactions, Stoichiometry, gases and their properties, acids and bases, solutions, chemical thermodynamics, equilibrium and reaction rates, and nuclear processes.

**UC approved; meets the 'd' requirement*

#10632 - CHEMISTRY HONORS (10th Grade)

10 Credits | One Year

Prerequisites: *B or higher in Biology Honors or A in Biology (#10620, #10622, or #10621); B or higher in fall semester honors math class or A or higher in fall semester math class*

This laboratory course investigates the chemical nature of matter and energy. Students are challenged to higher levels of critical thinking and applications through intensive lab work, research projects and an emphasis on the language of chemistry and its mathematical applications. This course has a summer work packet or summer assignment.

**UC approved; meets the 'd' requirement*

#10633 - AP CHEMISTRY (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *B or higher in Chemistry Honors or A or higher in Chemistry (#10632); B or higher in Algebra II/Trig Honors or A or higher in Algebra II (#10530 or #10532);*

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. This college course in general chemistry differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. This course has a summer work packet or summer assignment. There is an AP exam fee for this course.

**UC approved; meets the 'd' requirement*

#10642 - PHYSICS (11th & 12th Grade)

10 Credits | One Year

Co-requisite: *Algebra II (#10530) or Algebra II Honors/Trigonometry (#10532)*

This is an introductory laboratory course investigates the physical behavior of matter. Topics covered include motion in one and two dimensions, force, momentum, energy, waves and oscillations, electricity and magnetism, and an introduction to thermodynamics and atomic physics. This course is highly recommended for completing a comprehensive high school 3-year science program.

**UC approved; meets the 'd' requirement*

#10640 - PHYSICS HONORS (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *B or higher in fall semester honors math class or A or higher in fall semester math class*

This laboratory course investigates the physical behavior of matter. Topics covered include motion in one and two dimensions, force, momentum, energy, waves and oscillations, electricity and magnetism, and an introduction to thermodynamics and atomic physics. This course is highly recommended for completing a comprehensive high school 3-year science program. This course has a summer work packet or summer assignment.

**UC approved; meets the 'd' requirement*

#10643 - AP PHYSICS 1 (11th & 12th Grade)

10 Credits | One Year

Note: *AP Physics I and II are two separate one-year courses that replace AP Physics B*

Prerequisites: B or higher in Algebra II honors or A or higher in Algebra II (#10530 or #10532), **OR** B or higher in Pre-calculus Honors or A or higher in Precalculus (#10540 or #10542)

Co-requisites: *Algebra II/Trig (#10530 or #10532)*

Algebra-based course content - Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. This course has a summer work packet or summer assignment. There is an AP exam fee for this course. The Big Ideas are:

- Objects and systems have properties such as mass and charge. Systems may have internal structure.
- Fields existing in space can be used to explain interactions.
- The interactions of an object with other objects can be described by forces.
- Interactions between systems can result in changes in those systems.
- Changes that occur as a result of interactions are constrained by conservation laws.
- Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena.

**UC approved; meets the 'd' requirement*

#10655 - NUTRITION SCIENCE (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *Biology (#10620, #10621, #10624, or #10650)*

Co-requisites: *Chemistry (#10630, #10632, or #10633)*

This course introduces students to the basic science of nutrition and its application to daily life. Students will explore the major organic molecules (carbohydrates, lipids, proteins, vitamins, and minerals) and their importance in any diet. Topics such as sports nutrition, diet and health, and good nutrition for life will guide the course. The class studies the latest research and emerging issues in nutrition while conducting self-analysis, mock consultations, and an examination of nutrition in the media.

**UC approved; meets the “g” requirement*

#10665 - KINESIOLOGY (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *Biology (#10620, #10621, #10624, or #10650); and Chemistry (#10630, #10632, or #10633)*

Did you know that ankles can sprain in different ways and are diagnosed and treated based on the type? Did you know that there are multiple ways to block pain besides pain-killer oral medications based on the pain source? Organized professional and recreational sports is a part of human civilization. Come, take Kinesiology to understand human motion & movement that focuses on structural and functional anatomy of bones, muscles, joints, and supporting tissues. As with any type of physical activity there is always the risk of injury and this course provides a clear understanding of injury and repair processes. Additionally, students will understand the coordination of skeletal, muscular system, cardiovascular, and nervous systems and the role of muscles in contraction, stretching, and strength training. The course also covers injury evaluation (including all aspects of concussions) along with mechanisms and characteristics of musculoskeletal and nerve trauma. Finally, the student will learn about therapeutic exercise and rehabilitation as part of a fast-growing career directed toward Sports Medicine.

**UC approved; meets the “g” requirement*

#10660 - ANATOMY & PHYSIOLOGY (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *Biology (#10620, #10621, #10624, or #10650); and Chemistry (#10630, #10632, or #10633)*

Are food preservatives harmful? Why is sleep so important? How do your hormones control all of your body functions and growth as well as metabolism? How do muscles act like machines? This lab-based course is designed for students pursuing the possibility of a career in the health sciences as well as students wanting to gain a better understanding of structure and function of

body systems as they relate to disease mechanisms and associated risk factors. The first semester includes general terminology, histology and a detailed study of the endocrine system and how it is connected to all the other systems in the body. The second semester continues with study of endocrine system and its connections to the reproductive system including puberty, pregnancy, childbirth, and menopause/aging.

**UC approved; meets the 'd' requirement*

#10680 - AP ENVIRONMENTAL SCIENCE (11th & 12th Grade)

10 Credits | One Year

Prerequisites: A or higher in Biology (#10620), or B or higher in Biology Honors (#10621 or #10622)

The AP Environmental Science is a one-year course. It is designed, however, to be equivalent of a one-semester, introductory college course in environmental science. Unlike most other introductory-level college science courses, environmental science is offered from a wide variety of departments, including geology, biology, environmental studies, environmental science, chemistry, and geography. It is intended to enable students to undertake, as first-year college students, a more advanced study of topics in environmental science or, alternatively, to fulfill a basic requirement for a laboratory science and thus free time for taking other courses. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. There is an AP exam fee for this course.

**UC approved; meets the 'd' requirement*

10629 - MARINE BIOLOGY (10th, 11th & 12th Grade)

5 Credits | Fall Semester

Prerequisites: Biology (#10620, #10621, or #10622)

Marine biology is the study of marine organisms and their environment. The course begins with a comprehensive and in-depth look into marine ecosystems. Environmental factors, such as temperature, salinity, oxygen, minerals, ocean currents and depth will be discussed along with an introduction to measuring these variables. The study of marine ecosystems and environmental factors will lead to topics of conservation and the effect the earth's oceans have on the rest of the planet's ecology. The remainder of the semester is dedicated to marine organisms, where a broad spectrum of ocean life will be investigated, from single celled photosynthetic organisms to marine mammals, including whales and the myriad of invertebrates. Lab work will include collection, identification and study of marine organisms, and of preserved specimens. This course is designed for biology and non-biology majors. It is an exciting and relevant course for those interested in animal biology, veterinary fields, ecology, and marine biology.

**UC approved; meets the 'g' requirement*

#10623 – ZOOLOGY (10th, 11th, & 12th Grade)
5 Credits | Spring Semester

Prerequisites: Biology (#10620, #10621, or #10622)

The course first revisits the basic principles of biology including basic concepts of biology, the cell, and nutrition, a survey of physiological systems, reproduction, heredity, development, and diversity of organisms, evolution and environmental biology. After the foundations of biology are revisited, refreshed, and enhanced, the major zoological principles involving both invertebrates and vertebrates will be explored. There will be special emphasis on animal development, form and function, natural history and economic relationship to human society. Zoology will introduce the student to biological research in preparation for college. This course is designed for biology majors. It is a great course for those interested in animal biology, veterinary fields, ecology, and marine biology.

**UC approved; meets the 'g' requirement*

Social Studies Department

#10320 - WORLD HISTORY (10th Grade)

10 Credits | One Year

Studying past events sequentially from the 1700's to modern time's help students better understand how events in today's world are affected by what happened yesterday and that today's events will affect what happens in the future. The course is organized thematically as Religion, Social Studies, and English teachers coordinate to foster an interdisciplinary perspective on the humanities. Eras and topics covered are the Enlightenment, the French Revolution, the Industrial Revolution, the Rise of Imperialism, Causes and Consequences of World War I and II, and theories on Totalitarianism, Nazism, Fascism, and Nationalism in the contemporary world. Consideration of the reality that we are all brothers and sisters in a global village is foundational to this course.

**UC approved; meets the 'a' requirement*

#10333 - AP WORLD HISTORY (10th Grade)

10 Credits | One Year

Prerequisites: *B or higher in English I Honors or A or higher in English I AND B or higher in Biology Honors or A or higher in Biology*

This is a college-level comprehensive study of World History with the dual goals of broadening students' knowledge of world history from approximately 1200 AD to the twentieth century and, at the same time, preparing students for success on the College Board's AP World History Exam.

The course of study centers around five themes: Social-Development and Transformation of Social Structures, Political-State Building, Expansion and Conflict, Human/Environmental Interaction, Cultural-Development and Interaction of Cultures, and Economic-Creation, Expansion and Interaction of Economic Systems. In addition, the curriculum includes the nineteen key concepts of historical study and analysis as contained in the College Board AP World History test battery as well the key components required to build the historical thinking skills required for college study in the social sciences. As with all Advanced Placement courses, students are expected to be extremely self-motivated as there is a great deal of independent reading involved. This course has a summer assignment. There is an AP exam fee for this course.

**UC approved; meets the 'a' requirement*

#10330 – U.S. HISTORY (11th Grade)

10 Credits | One Year

Continuity and change in the twenty-first century are emphasized in this course. Students will be shown that to deal effectively with the challenges of current conditions in the U.S. today, they must have an accurate understanding of the people, their ideas, the places and events which went into the formation of our country. The course is organized thematically. Eras and topics covered include the Progressive Era, the Jazz Age, the Great Depression, World War II and the Cold War. Integral to the course are the Civil Rights Movement and various studies of modern events that align to historical topics.

**UC approved; meets the 'a' requirement*

#10332 - AP UNITED STATES HISTORY (11th Grade)

10 Credits | One Year

Prerequisites: A or higher in World History or B or higher in AP World History (#10320 or #10333)

This is a college-level course of United States History and Geography. It is accepted by many colleges for course credit or advanced placement of those students who qualify on the CEEB Advanced Placement Examination given in May. The course emphasizes advanced study skills, reading historical works and writing analytically. Historical evidence is weighed; interpretations are made on historical findings, which lead to conclusions based on facts. As with all Advanced Placement courses, students are expected to be extremely self-motivated as there is a great deal of independent reading involved. This course has a summer assignment. There is an AP exam fee for this course.

**UC approved; meets the 'a' requirement*

#10340 - ECONOMICS (12th Grade)

5 Credits | Spring Semester

Economics is the study of human choice, and therefore human behavior, in the face of ubiquitous scarcity. In this introductory one semester course, the core elements of both Microeconomics (the study of individual and group choices) and Macroeconomics (the study of the aggregate effects of choices) are imparted to students. Familiarity with the economic principles introduced in this class will allow each student to better understand the world around them and will give each young person life-long tools which they will use to not only interpret the news, but also the activities of their government and private market actors all around them every day in an informed way.

**UC approved; meets the 'g' requirement*

#10342 - AP MACROECONOMICS (12th Grade)

10 Credits | One Year

Prerequisites: A or higher in US History or B or higher in AP US History (#10330 or #10332)

AP Macroeconomics is a college-level course which is ultimately the study of the aggregate effects of human behavior – the behavior of peoples, groups, and nation-states everywhere both today and historically – on the world around us all. The core principles of Economics will provide a basis for an expanded understanding of such fundamental metrics as GDP, CPI, inflation and unemployment. And these will lead to a review of the predominant philosophical approaches to maintaining or enhancing aggregate demand and supply via fiscal and monetary policy. The core importance of our fractional reserve banking system will also be studied extensively. As with all Advanced Placement courses, students are expected to be extremely self-motivated as there is a great deal of independent reading involved. This course has a summer assignment. All students are required to sit for the AP Macroeconomics exam in May. There is an AP exam fee for this course.

**UC approved; meets the 'g' requirement*

#10350 - U.S. GOVERNMENT AND POLITICS (12th Grade)

5 Credits | Fall Semester

In order to play a role in the political process of their nation, citizens of a democracy must have a thorough understanding of government and politics. This course seeks to give the students' knowledge of American government, its democratic foundation with its specific structures such as of separation of powers, federalism and the study of political institutions. Part of the course involves discussing current issues of interest and importance in American politics.

**UC approved; meets the 'a' requirement*

#10352 - AP GOVERNMENT AND POLITICS (12th Grade)

10 Credits | One Year

Prerequisites: A or higher in US History or B or higher in AP US History (#10330 or #10332)

AP U.S. Government & Politics is a year-long college-level course that studies the framing and content of the Constitution and other founding documents in detail to facilitate a better understanding of the foundations of America's unique, and purposefully inefficient, governmental system. American political beliefs, behaviors, parties and other institutions, as well as a variety of public policies and civil rights issues, will be studied, but the class will focus fundamentally on the system and will look at modern policies through the prism of that system. Politics evolves; America's system is the constant. Students will learn this material through reading, discussion, lectures, and various class activities. As with all Advanced Placement courses, students are expected to be self-motivated and there is a great deal of assigned independent reading. This course has a summer assignment. All students are required to sit for the AP U.S. Government & Politics exam in May. There is an AP exam fee for this course.

**UC approved; meets the 'a' requirement*

#10360 – INTRO TO LAW (11th & 12th Grade)

5 Credits | Fall Semester

Basic Law is a fall semester course that provides practical law education for upper division students. Law-Related Education (LRE) aids the students in understanding the U.S. Constitution, Rights and Responsibilities, along with an introduction to some state and criminal laws that affect them. It is hoped that students acquire the citizenship skills needed to participate in our society and learn that they can make a difference. A mock trial is part of the experience in which students will learn about rules of evidence as well as court room procedures.

**UC approved; meets the 'g' requirement*

#10365 - CRIMINAL JUSTICE IN AMERICA (11th & 12th Grade)

5 Credits | Spring Semester

Do you think the legal system in the United States is perfect? No? Well, come and discover the inner workings of the American legal system. The issues we will explore include the definition of crime, juvenile justice and teens that commit crimes, the police & perception of law enforcement, and Corrections. There will also be a special component of the class where students will learn about the criminal case, the trial process, objections, and Mock Trials. Students will be lawyers and witnesses in these Mock Trials. This class is a great way to learn about your rights before and after you are 18 years old. Criminal Justice is a spring semester course that typically follows Basic Law, but that fall elective is not a pre-requisite for Criminal Justice.

**UC approved; meets the 'g' requirement*

#10390 – INTRODUCTION TO PSYCHOLOGY (10th, 11th, & 12th Grade)

10 Credits | One Year

In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology including research methods, developmental psychology, abnormal psychology, treatment, personality, states of consciousness, memory, and social psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives.

**PENDING UC approval to meet the 'g' requirement*

#10392 - AP PSYCHOLOGY (10th, 11th, & 12th Grade)

10 Credits | One Year

Prerequisites: *For rising sophomores: A or higher in Biology or B or higher in Biology Honors*

For rising juniors: A or higher in World History or B or higher in AP World History

For rising seniors: A or higher in US history or B or higher in AP US History

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. As with all Advanced Placement courses, students are expected to be extremely self-motivated as there is a great deal of independent reading involved. There is an AP exam fee for this course.

**UC approved; meets the 'g' requirement*

Performing Arts Department

Music

#10760 - CHORUS I: PIONEER CHORUS - BEGINNING CHOIR

10 Credits | One Year

Pioneer Chorus (Chorus 1) is a beginning ensemble that is available to all students at Providence High School. Students will learn introductory concepts of healthy vocal technique, fundamentals of music theory, history, sight singing, and the rehearsal of music. The choral ensemble will perform beginning to intermediate levels of choral literature chosen from various eras of musical history. Most importantly, students will develop self-discipline and learn to work cooperatively. Students will prepare and perform a variety of musical styles from a variety of cultures throughout the year along with preparing popular music selection that incorporate choreography.

A performance attire rental fee will be required. A field trip may be required of each student on this course. Destination determines cost. The field trip cost will be limited by administrative approval for each event.

**UC approved; meets the 'f' requirement*

#10770 - CHORUS II: PIONEER CHORUS – BEGINNING/INTERMEDIATE CHOIR

10 Credits | One Year

Pioneer Chorus (Chorus 2) is an ensemble that is available to all students at Providence High School. Students will use previous musical knowledge and expand on the use of healthy vocal technique, music theory, history, sight singing, and the rehearsal of music. The choral ensemble will perform beginning to intermediate levels of choral literature chosen from various eras of musical history. Most importantly, students will develop self-discipline and learn to work cooperatively. Students will prepare and perform a variety of musical styles from a variety of cultures throughout the year along with preparing popular music selection that incorporate choreography.

A performance attire rental fee will be required. A field trip may be required of each student in this course. Destination determines cost. The field trip cost will be limited by administrative approval for each event.

**UC approved; meets the 'f' requirement*

Music

#10765 - CHORUS 3: PROVIDENCE SINGERS – INTERMEDIATE/ADVANCED CHOIR **10 Credits | One Year**

Prerequisites: *Chorus I (#10760); or Choir Director approval*

Providence Singers (Choir 3) is our advanced choral ensemble. Students will be expected to have prior knowledge of musical terminology and the use of basic musical fundamentals. This course will scaffold on previous experience. Students will be given opportunities to read and notate music, analyze and describe music elements, and identify and explain compositional devices and daily participation of singing in this advanced ensemble. Students will gain more responsibility and be asked to perform more competitively and represent Providence High School in the Performing Arts community. This course is available to all students at Providence High School that meet the pre-requisite. Students will continue to focus on healthy vocal technique, fundamentals of music theory, history, sight singing, and the rehearsal of music. Using composition and analysis, we will cover notation, intervals, chords, inversions, voice leading, and harmonic progressions. The Choral ensemble will perform advanced-level literature chosen from various eras of musical history along with preparing popular music selections that include choreography.

A performance attire rental fee will be required. A field trip may be required of each student in this course. Destination determines cost. The field trip cost will be limited by administrative approval for each event.

**UC approved; meets the 'f' requirement*

#10704 – CHOIR 4: PROVIDENCE SINGERS – ADVANCED CHOIR **10 Credits | One Year**

Prerequisites: *Chorus I (#10760); or Choir Director approval*

Providence Singers (Choir 4) is our advanced choral ensemble. It is an auditioned ensemble. The yearlong course studies and explores choral expression, harmony and performance experiences at an advanced level. The development of individual vocal qualities is stressed. The roots and significance of various musical/vocal styles and techniques in relation to culture will also be explored. This course studies choral expression, harmony, and performance experiences at a professional level. Students will gain more responsibility and be asked to perform more competitively and represent Providence High School in the Performing Arts community. This course is available to all students at Providence High School that meet the pre-requisite of Choir 2 and or Choir 3. The Choral ensemble will perform advanced level literature chosen from various eras of musical history along with preparing popular music selection that incorporate choreography. A performance attire rental fee will be required.

A field trip may be required of each student on this course. Destination determines cost. The field trip cost will be limited by administrative approval for each event.

**UC approved; meets the 'f' requirement*

#X1055 – SOPRANO/ALTO CHOIR ENSEMBLE - 'HIGH TIDE'

2.5 Credits | One Year

(Zero Period before the start of the regular school day)

This ensemble choir is open to all students at Providence. No audition necessary. All are welcome to join with director approval. The ensemble is mixed by age and experience and performs at an intermediate/advanced level. High Tide competitive choir that represents Providence High School in the Performing Arts community. The choir will perform advanced level literature chosen from various eras of musical history along with preparing popular music selection that incorporate choreography. Ensemble members are expected to be active and present at all scheduled rehearsals.

A field trip may be required of each student in this course. Destination determines cost. The field trip cost will be limited by administrative approval for each event.

**non-academic course, UC approval pending*

#X1068 – TENOR/BASS CHOIR ENSEMBLE - 'HOME BASS'

2.5 Credits | One Year

(Zero Period before the start of the regular school day)

This ensemble choir is open to all students at Providence. No audition necessary. All are welcome to join with director approval. The ensemble is mixed by age and level of experience. This ensemble performs intermediate/advanced repertoire. Home Bass is also a competitive choir that represents Providence High School in the Performing Arts community. Ensemble members are expected to be active and present at all scheduled rehearsals.

A field trip may be required of each student in this course. Destination determines cost. The field trip cost will be limited by administrative approval for each event.

**non-academic course, UC approval pending*

10792 – INSTRUMENTAL MUSIC

10 Credits | One Year

The instrumental music class is devoted to the rehearsal and performance of musical repertoire and the growth of each student's music fundamentals, improvisation, and composition. Music from a variety of eras and genres will be analyzed and interpreted. All instruments are welcome to this ensemble. Students will perform at least twice a year in the annual Christmas and Spring concerts. This class will also provide music for school events including Mass, PHS Jams, athletic games, and admission events.

Open to all students. Some instrumental experience preferred.

**UC approved; meets the 'f' requirement*

Drama/Theater

#10794 – DRAMA/THEATRE

10 Credits | One Year

Drama I is an engaging and dynamic introduction to the art of acting. In this collaborative workshop atmosphere, students will be encouraged to develop a greater sense of physical, vocal, and emotional awareness unearthing the tools necessary for character creation and performance. Students will learn the basic rules of improvisation and gain the ability to truthfully remain within the confines of an imaginary setting. They will also be introduced to concepts and terms such as given circumstances, intention, tactic, and obstacle and will apply this knowledge in the creation of original characters and story lines through improvisation, which will then be evaluated. Students will delve into storytelling, physical play and Commedia technique and will bring to life fairy tales, nursery rhymes, and basic plot narratives and, in groups, create original scenes and/or monologues, as well as produced theatrical, television and film scripts.

As the course progresses, students will examine different acting approaches, evaluate an outside performance that they will attend and audition for and participate in the production and presentation of either the fall drama/comedy or the spring musical. This class demands some outside commitment.

**UC approved; meets the 'f' requirement*

#10791 – CLASSICAL ACTING

10 Credits | One Year

(Zero Period meets *before* the start of the regular school day)

As a continuation of Drama I, this advanced course focuses on the deeper understanding of character and story structure as defined by the playwright. With an ongoing emphasis placed on teambuilding and awareness, including physical and vocal technique, students will apply terms and concepts learned in year one to the process of 'breaking down' a script and the development of a fully arched character. This course requires that each student write and perform an original monologue based on their own given circumstances as well as prepare two scenes with partners from both modern and classic literature. Students will also be required to attend four professional plays (selected under the supervision of the instructor) and write about their experiences.

This class demands a great deal of outside commitment. Students will be required to audition for and participate in the fall drama/comedy as well as the spring musical and engage in all elements of theatre production including technical design, marketing and event planning.

**UC approved; meets the "f" requirement*

#10788 – DANCE I – MOVEMENT EXPLORATION (all levels)

10 Credits | One Year

Over the course of the year, students will learn the foundational techniques of multiple dance styles: ballet, jazz, modern, contemporary and hip hop, with an emphasis on correct body alignment, improving flexibility, strength and conditioning, as well as expression and developing their own artistry. In addition, there will be a focus on creating your own work and choreography.

*This class is a VPA credit that can serve to fulfill the 20-credit PE requirement as well, culminating in at least one performance opportunity, with the possibility for more. No prior dance training necessary. Dance & Movement Exploration will be offered during Block 1 and/or 2.

**UC approved; meets the “f” requirement*

Visual Arts Department

#10710 - ART I

10 Credits | One Year

Art 1 is an introduction to different types of art and a variety of media. This class is an introduction to drawing, shading and painting techniques as well as sculpture and design. Some key projects include calligraphy, papier-mâché, and painting. A technique selected from the above will be used for the final project. This project is in place of a final exam. This course meets the VPA graduation requirement.

**UC approved; meets the 'f' requirement*

#10115 – GRAPHIC DESIGN

10 Credits | One Year

Graphic Design is a year-long course for students who are interested in graphic concepts and projects. Students will learn graphic design skills and theory while creating projects integrating computer illustration, photography, printmaking, and web design. Students will use programs such as Illustrator, InDesign, Photoshop, and Premiere to create computer generated drawings, fliers, posters, advertisements, and videos. Students will create real world design projects.

**UC approved; meets the 'f' requirement*

***This class may be offered as a self-paced online course, depending on interest and enrollment.*

#10825 - ANIMATION

10 Credits | One Year

Animation is a year-long course for students who are interested in creating art in motion, creating animated characters and the history of Animation. Students will be introduced to traditional animation, stop motion, computer animation, cutout animation and Claymation. Students will learn and use programs such as Dragonframe, Animate, Premiere and After Effects to create a variety of animated shorts.

**UC approved; meets the 'f' requirement*

***This class may be offered as a self-paced online course, depending on interest and enrollment.*

#10716 – ADVANCED ANIMATION

10 Credits | One Year

Advanced Animation builds on the skills acquired in Animation with an emphasis on storytelling and motion. Students will develop and design their own characters and storylines to create full animation pieces. There will be an emphasis on pre-production through the use of storyboards and animatics while exploring After Effects and Premiere for postproduction editing.

* **PENDING** UC approval to meet the 'f' requirement

#10730 - CERAMICS I

5 Credits | One Semester

This course explores the Principles of Art and Design through three-dimensional design in clay molding and sculpture with the use of hand-building techniques and general 3D design concepts. Students will be exposed to ceramic terms while learning the different techniques such as pinch pot, coils, slab, ball construction, wheel thrown objects, and hollowed out and slump molds. Students will create a piece which shows learned techniques for their final project.

Must be taken in sequence with Ceramics II (#10732) in order to meet UC 'a-g' admission guidelines.

*UC approval meets; the 'f' requirement

#10732 - CERAMICS II

5 Credits | One Semester

Prerequisites: Ceramics I (#10730)

This course explores advanced three-dimensional designs in clay molding and sculpture. It further develops the hand building and glazing techniques introduced in Ceramics I as well as creating advanced wheel-thrown objects. Students make work with Paper Mache and other sculpture materials to design and construct free-standing sculptures to produce ceramic works. Students will choose a technique as a focus for their final project.

Must be taken in sequence with Ceramics I (#10730) in order to meet UC 'a-g' admission guidelines.

*UC approval meets; the 'f' requirement

#10733 – ADVANCED CERAMICS 3

5 Credits | Fall Semester

Prerequisites: Ceramics II (#10732)

This course is an advanced exploration of ceramics and sculpture techniques with a strong emphasis on composition, design and advanced techniques in form and function. Students will continue to explore the art of ceramics and composition as it applies to three dimensional projects, mold making and wheel throwing.

Must be taken in sequence with Ceramics 4 (#10734) in order to meet UC 'a-g' admission guidelines.

*UC approval meets; the 'f' requirement

#10734 – ADVANCED CERAMICS 4

5 Credits | Spring Semester

Prerequisites: *Ceramics II (#10732)*

This course is an advanced exploration of ceramics and sculpture techniques with a strong emphasis on composition, design and advanced techniques in form and function. Students will continue to explore the art of ceramics and composition as it applies to three dimensional projects, mold making and wheel throwing. Ceramics 4 focuses on preparing students for creation of a ceramics and sculpture portfolio for further exploration of 3D Art including but not limited to AP Art and Design 3D portfolio.

Must be taken in sequence with Ceramics 3 (#10733) in order to meet UC 'a-g' admission guidelines.

**UC approval meets; the 'f' requirement*

#10740 – PHOTOGRAPHY I (10th, 11th, 12th Grade)

5 Credits | One Semester

This course is an introduction to digital photography. Students will study the functions of a camera as well as the art of composition and using photography as art. This course will also cover an introduction to Photoshop, bridge, and how to process pictures to receive the desired effects. It is strongly suggested, however, that students have a digital camera for this course. Student cameras will be available for student use during class time.

Must be taken in sequence with Photography II (#10742) in order to meet UC 'a-g' admission guidelines.

**UC approved; meets the 'f' requirement*

#10742 - PHOTOGRAPHY II (10th, 11th, 12th Grade)

5 Credits | One Semester

Prerequisites: *Photography I (#10740)*

Photography II is an advanced photography course. This course will provide students with opportunities to extend and advance their knowledge and skills in the field of photography. This course will familiarize the student with advanced photographic materials, methods and processes. Focus is on advanced techniques in composition, compositing and lighting.

Must be taken in sequence with Photography I (#10740) in order to meet UC 'a-g' admission guidelines.

**UC approved; meets the 'f' requirement*

#10743 - ADVANCED PHOTOGRAPHY AND INTRODUCTION TO CINEMATOGRAPHY (PHOTO 3)

5 Credits | One Semester

Prerequisites: *Photography II (#10742); OR Completion of 2 years in Cinema Arts Program and prior completion of PHS VPA Graduation Requirements*

This course is an advanced exploration of photography with a strong emphasis on composition and advanced techniques in lighting and digital manipulation. Students will continue to explore the art of photography and composition as it applies to moving images with the introduction of cinematography to the course. Students need a camera for this course, preferably a digital SLR camera.

**UC approved; meets the 'f' requirement*

#10744 - ADVANCED PHOTOGRAPHY AND INTRODUCTION TO CINEMATOGRAPHY (PHOTO 4)

5 Credits | One Semester

Prerequisites: *Photography 3 (#10743) and prior completion of PHS VPA Graduation Requirements*

This course is an advanced exploration of photography with a strong emphasis on composition and advanced techniques in lighting and digital manipulation. Students will continue to explore the art of photography and composition as it applies to moving images with the introduction of cinematography to the course. Students need a camera for this course, preferably a digital SLR camera.

**UC approved; meets the 'f' requirement*

#10720 - ADVANCED ART: ADVANCED DRAWING, PAINTING, SCULPTURE AND DESIGN

10 Credits | One Year

Prerequisites: *Art I (#10710); OR Graphic Design (#10115); OR Animation (#10825)*

The class is intended for students to further develop It is intended to provide students with the opportunity to explore and enhance their own style and unique vision as artists. Based on students' individual strengths, artistic styles, and interests, this course will offer the chance to explore a wider variety of mediums such as graphite, charcoal, ink, sculptural materials, mixed media, gauche, and computer-generated artwork. Advanced techniques in 3D design and sculpture will be investigated, according to student interest. Contemporary artists and their

works will be studied as inspiration for student work. Students will learn mat-cutting and presentation for display in various art shows and exhibits.

**UC approved; meets the 'f' requirement*

AP ART & DESIGN (11th & 12th Grade)

10 Credits | One Year

Prerequisite: Portfolio approval; Prior completion of PHS VPA graduation requirement in Visual Arts.

This is a class designed for advanced art students, who are seriously interested in the practical experience of art. Throughout the class students will need to demonstrate a synthesis of materials, processes and ideas. AP Art and Design students submit portfolios for evaluation at the end of the school year to the College Board and the Advanced Placement Program instead of completing an AP exam. Portfolios consist of 5 selected works and 15 images for the Sustained Investigation portion. Students choose one of three areas to submit their portfolio:

- **(#10755) 2D Art and Design-** 2D Art and Design- students focus on design and layout elements. This portfolio can include, but are not limited to drawings, painting, photography and digital art
- **(#10756) 3D Art and Design-** 3-D Art and Design- students focus on three-dimensional project construction using a variety of mediums including but not limited to recycled materials, ceramics and traditional sculpture materials.
- **(#10754) Drawing** - focuses on mark making – students can include painting and even digital work that emphasizes mark making and skillful technique

There is an AP exam fee for this course.

**UC approved; meets the 'f' requirement*

#10753 - AP ART HISTORY (10th, 11th, & 12th Grade)

10 Credits | One Year

Prerequisites: A or higher in World History or B or higher in AP World History (#10320 or #10333); **OR** A or higher in US History or B or higher in AP US History (#10330 or #10332)

AP Art History involves critical thinking and developing an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting and other media. In this course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. While visual analysis is a fundamental tool of the art historian, art history emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender, and the functions and effects of works of art. Students will visit museums to explore and analyze works of art in person and as a group. There is an AP exam fee for this course.

**UC approved; meets the 'f' requirement*

World Languages Department

#10410 - FRENCH I

10 Credits | One Year

A four-skills (listening, speaking, reading and writing) course designed to develop students' proficiency in French vocabulary and grammar with a special focus on communication and self-expression. These objectives are achieved through oral activities, text and workbook activities, on-line activities and an audio/video program which accompanies the text. The course includes an introduction to French culture and civilization.

**UC approved; meets the 'e' requirement*

#10420 - FRENCH II

10 Credits | One Year

Prerequisites: French I (#10410)

A four-skills (listening, speaking, reading and writing) course designed to further develop students' proficiency in French vocabulary and grammar for the purpose of encouraging students to use French for communication and self-expression. These objectives are achieved through oral, text and workbook activities and an interactive on-line program that accompanies the text. The language is presented within the context of the contemporary French-speaking world and its culture.

**UC approved; meets the 'e' requirement*

#10435 - FRENCH III

10 Credits | One Year

Prerequisites: B or higher in French II (#10425)

An intermediate four-skills (listening, speaking, reading and writing) course designed to polish the students' proficiency in French. Advanced grammar structures are presented, and communication is emphasized through the interpretive, interpersonal, and presentational modes of language learning. These objectives are achieved through oral, text and workbook activities and an interactive on-line program that accompanies the text. The language is presented within the context of French literature, history and contemporary topics.

**UC approved; meets the 'e' requirement*

#10430 - FRENCH III HONORS

10 Credits | One Year

Prerequisites: B or higher in French II Honors or A in French II

Prerequisites: B- or higher in French II Honors (#10410) or departmental approval

An intermediate four-skills (listening, speaking, reading and writing) course designed to polish the students' proficiency in French. French III Honors is designed for students with high level skills in vocabulary and grammar. Advanced grammar structures are presented, and communication is emphasized through the interpretive, interpersonal, and presentational modes of language learning. French III Honors requires more oral and written work, is broader in scope and moves at a faster pace than French III. The language is presented within the context of French literature, history and contemporary topics. This course also prepares the student for the skills needed for French IV Honors in the areas of vocabulary, verbs, grammar, and composition.

**UC approved; meets the 'e' requirement*

#10440 - FRENCH IV HONORS

10 Credits | One Year

Prerequisites: B or higher in French III Honors or A in French III

An advanced four-skills (listening, speaking, reading and writing) a course designed to further polish the students' proficiency in French. French IV Honors is designed for students with high level skills in speaking and writing. Advanced grammar structures are presented, and communication is emphasized through the interpretive, interpersonal and presentational modes of language learning. French IV Honors requires more oral and written work, is broader in scope and moves at a faster pace than French IV. The language is presented within the context of French literature, history and contemporary topics.

**UC approved; meets the 'e' requirement*

#10450 - SPANISH I

10 Credits | One Year

A four-skill course (listening, speaking, reading and writing) designed to develop students' Spanish proficiency. Emphasis is on vocabulary building through authentic texts, communicative activities and through interactive on-line assignments. The course objectives are met through various means that emphasize language acquisition. Students are introduced to the diverse cultures of the Spanish-speaking world.

**UC approved; meets the 'e' requirement*

#10460 - SPANISH II

10 Credits | One Year

Prerequisites: Spanish I (#10540)

This course is a continuation of Spanish I, including the development of all language skills, with heavy emphasis on grammatical structures designed to develop students' Spanish proficiency. The course objectives are met through authentic advance reading, writing and listening activities. Students are given the opportunity to practice speaking in the target language and gain cultural awareness through to the study of the Spanish-speaking world.

**UC approved; meets the 'e' requirement*

#10462 - SPANISH II HONORS

10 Credits | One Year

Prerequisites: A or higher in Spanish I (#10450)

This course is a continuation of Spanish I, including the development of all language skills, with heavy emphasis on grammatical structures designed to develop students' Spanish proficiency. The course objectives are met through authentic advance reading, writing and listening activities. Students are given the opportunity to practice speaking in the target language and gain cultural awareness through to the study of the Spanish-speaking world.

Students in Spanish II Honors follow the course of study described for Spanish II with additional emphasis on communication. Students also read two short novels during the academic year. As an Honors course, this class moves at a faster pace and assumes students' self-motivation to learn Spanish language and culture. This course requires summer work.

**UC approved; meets the 'e' requirement*

#10470 - SPANISH III

10 Credits | One Year

Prerequisites: B or higher in Spanish II (#10460)

Spanish III continues examining grammar structures, with a heavy emphasis on culture. Students get the opportunity to master concepts learned from Spanish I and Spanish II. The course objectives are met through authentic advance reading, writing and listening activities. There is more focus on Latin American art, music, legends, history, technology and environmental challenges in the Americas.

**UC approved; meets the 'e' requirement*

#10472 - SPANISH III HONORS

10 Credits | One Year

Prerequisites: *B or higher in Spanish II Honors (#10462); A in Spanish II (#10460);*

An intermediate four-skill course designed to polish the students' proficiency in Spanish. Honors Spanish III is designed for students with high-level skills in vocabulary and grammar. Advanced grammar structures are presented, and a special focus is given to the strengthening of conversational ability. The course prepares the students for the skills needed in AP Spanish IV in the areas of vocabulary, verbs, grammar and compositions. This course requires summer work.

**UC approved; meets the 'e' requirement*

#10481 - SPANISH IV

10 Credits | One Year

Prerequisites: *B or higher in Spanish III Honors OR A in Spanish III*

Spanish IV aims at developing and improving student's oral and written communication through the continued study of the language and culture of Spain, Latin America and Hispanic communities in the United States. It also seeks to improve students' ability to read and appreciate literary and non-literary texts in Spanish, deepening this way students' awareness and understanding of the cultural diversity of the Spanish-speaking world. The course is organized by themes based on contemporary social, political and cultural issues of Spanish-speaking societies. This course will meet the needs of highly motivated students who have a strong interest and ability in the Spanish language.

**UC approval: meets the 'e' requirement*

#10480 - AP SPANISH LANGUAGE & CULTURE

10 Credits | One Year

Prerequisites: *B or higher in Spanish III Honors (#10472), or A or higher in Spanish III (#10460)*

This course is equivalent to a third-year college level course designed for students who already have strong skills in reading, writing, speaking and listening and are interested in developing a more in depth understanding of the Spanish language. Instructional materials, activities, assignments, and assessments are appropriate to this level. This course is conducted entirely in Spanish; the main objective is for students to develop proficiency in integrating languages skills and synthesizing written and audio material, the formal writing process, extensive interpersonal

and presentational speaking and writing practice, and oral comprehension skills. Course content is aligned to the College Board AP Spanish Language Course Description.

This course requires a summer work packet or summer assignment. There is an AP exam fee for this course.

**UC approved; meets the 'e' requirement.*

#10401 - AMERICAN SIGN LANGUAGE, LEVEL 1

10 Credits | One Year

This course will introduce students to American Sign Language (ASL) as a World Language. Students will develop beginning-level ASL communication skills and start their journey into the Deaf World by exploring American Deaf culture and history by comparing ASL with spoken English. This course utilizes interactive activities, and a variety of assessment tools to measure students' ASL receptive and expressive skills, and knowledge of Grammar and Deaf culture. Students will have opportunities to practice the language and use it in authentic ways, through student-teacher, and student-student interactions, and practice conversations. Students will participate extensively in interactive activities using the "Voices Off" Policy to ensure ASL immersion. Course instruction and activities are primarily in American Sign Language.

**UC approval pending to meet the 'e' requirement*

***ASL Levels 2 (#10402) and 3 (#10403) will be created and offered in succession, based on student interest and availability of qualified personnel.*

#10402 - AMERICAN SIGN LANGUAGE, LEVEL 2

10 Credits | One Year

This course continues the study and practice of basic skills initiated in ASL 1. It emphasizes comprehending, signing, developing receptive skills, and using the glossing system for written ASL. The course includes conversation strategies, grammar analysis, vocabulary and idiom development. Students will continue to learn about and understand Deaf heritage, Deaf culture, and the Deaf community. Students will be encouraged to interact with Deaf people in social contexts and a variety of other situations. Language is best learned using an immersion model. Following this model, ASL II will be presented with minimal to no voice. Students will be evaluated through various techniques including class participation, classwork, homework, expressive assignments, and receptive assignments.

**PENDING UC approval to meet the 'e' requirement*

***ASL Levels 3 will be created and offered in succession, based on student interest and availability of qualified personnel.*

Cinema Arts Program

The Cinema Arts Program is a unique four-year experience for highly motivated, media-driven students. Our Cinema Arts pioneers enjoy working with professionals in the entertainment industry in a state-of-the-art studio space equipped with professional-grade editing bays. The curriculum is designed to allow students an initial orientation to the process and specialized software & equipment required to produce high-quality cinematic art during their first two years of high school. Then, in the spring of their sophomore year, with mentorship and advisement from their Cinema Arts instructor, Director of the Cinema Arts Program, and college counselor, students discern whether applying to film schools is their goal or not. From there, Cinema Arts students continue in their same cohort but in one of two tracks:

- A track designed to equip and empower them to create an individual portfolio and skill set that will enable them to apply to highly selective film schools. This track requires a great deal of self-discipline, motivation, and stamina to maintain a more intensive production schedule & higher industry standards in their work.
- A track designed to continue building students' skill set in cinematic arts through project-based learning in groups with a less intense production timeline and portfolio requirement.

Please Note: Transfer applicants are considered on a case-by-case basis. The Program has an annual enrollment fee

Criteria for entrance into the Cinema Arts Program:

- In addition to a general admissions interview, all applicants must take part in an additional interview with a faculty member of the Cinema Arts Program.
- Personal statement of authentic interest
- Demonstrated initiative as evidenced by middle school transcripts
- Enthusiasm, motivation, and
- Commitment to participate in all activities/projects, including after school events

Criteria for continuing in the Cinema Arts Program:

- Continued high level of interest
- Cumulative GPA of 2.5 or higher
- Class participation and GPA of 3.0 or higher in all program classes
- Engagement with learning opportunities and after school events
- Approval of Program Director and Administration

Cinema Arts Program Scope and Course Sequence

Grade Level Requirements	Required Cinema Arts Courses	
9 th Grade	Introduction to Cinema Arts: Media & the History of Media (Media I - #10814)	
10 th Grade	Moving Image Art & Production (Moving Image - #10828)	
	<p>Please Note: In the spring of 10th grade, Cinema Arts students discern their track for junior & senior years: developing an individual film school portfolio <u>or</u> continuing collaborative exploration.</p> <p><i>The curriculum for the two distinct tracks exposes students to the same project-based learning in Cinema Arts. Those on the Film School track must maintain a more intensive production schedule & higher industry standards in their work.</i></p>	
11 th Grade (Both Tracks)	Media Ethics: Framework, Application & Films Making Art with an Impact (#10849 - Fall)	Video Production I: Video Production & Film Analysis (#10834 - Spring)
12 th Grade (Both Tracks)	Cinema Honors: Honors Writing for TV & Film (#10850 – Fall)	Video Production II: Directing for TV & Film (#10854 - Spring)

#10814 – INTRODUCTION TO CINEMA ARTS (MEDIA I – 9th)

10 Credits | One Year

This course delves into the practical and aesthetic contexts of cinema, providing students with a comprehensive understanding of the art form. Through a combination of hands-on filmmaking assignments and film studies, students will develop a deeper appreciation for cinema arts. From immersive technical workshops to the creation of a 3-5 minute short film, students will explore a wide range of media production techniques. The course covers various aspects, including introduction to screenwriting basics, and an exploration of classical story structure. Additionally, students will receive instruction on editing using our Adobe Premiere editing workstations and will be introduced to the fundamentals of camera equipment. Student filmmakers will examine how different elements of various films may generate audience's emotional response and create social change.

**UC approved; meets the 'g' requirement*

#10833 – DIGITAL BROADCAST JOURNALISM (11th & 12th Grade)

5 Credits | Spring Semester

This course is about finding original and creative ways to gather, write and produce relevant news, entertainment, sports, and human-interest stories for broadcast. Students will acquire skills in both prerecorded and live production techniques. The curriculum covers operating a newsroom studio, examining ethics in AI and broadcast, mastering interviewing techniques, and conducting media analysis. The course encourages students to lean into their individual style and utilize their unique voices as they craft reports and construct inspired stories ready for broadcast.

*This course is open to non-Cinema Arts and Cinema Arts Junior and senior students.

**UC approved; meets the 'g' requirement*

#10828 – MOVING IMAGE ART & PRODUCTION (10th Grade)

10 Credits | One Year

This course is an introduction to the artistry and visual language of filmmaking. Through the medium of video and film production, students will learn to appreciate cinema as an art form and a method for expressing both the personal and professional craft of filmmaking. During this course, students will learn various aspects of script writing, pre-production, production, and post production. They will experience hands-on lessons in cinematography, cinematic design and the technical skills required to shoot and edit short films. During the year, they will submit several creative works and explore the basic techniques in the world of cinema.

**UC approved; meets 'f' requirement*

#10849 – MEDIA ETHICS: FRAMEWORK, APPLICATION & FILMS (11th Grade)

5 Credits | Fall Semester

In this course, we turn our attention to more advanced production and storytelling. Students use filmmaking as a tool to investigate modern life in American and international culture and explore

different philosophical frameworks for ethical analysis. During this year, Cinema students will create a documentary and a short film inspired by World Cinema. In this Foreign Language short, they will focus on utilizing foreign filmmakers, and their films, as a launching pad for story development—both implicitly and explicitly when it comes to social commentary.

**UC approved: meets the 'g' requirement*

#10829 – INTRODUCTION TO FILM & MEDIA (10th & 11th Grade)

5 Credits | Spring Semester

This is an elective in the Cinema Arts Department that is open to all interested 10th and 11th graders. Through a variety of practical and creative video assignments and media studies, students will have the opportunity to explore the world of visual storytelling. From making individually directed one-minute films and music videos to larger-scale group productions in a green screen studio, students will explore a broad scope of the entertainment industry. Students will collaborate as they learn fundamental principles of film and video production including scriptwriting, shot composition, and video editing. This hands-on course is designed to foster fun and inspire curiosity as students are encouraged to express themselves visually through their own creativity.

**UC approval pending to meet the 'g' requirement*

#10834 - VIDEO PRODUCTION I: Advanced Video Production - Film Analysis PART I (11th Grade)

5 Credits | Spring Semester

This one semester class allows students to experience, firsthand, what it is like to collaborate on a video project. Teams are given three project assignments during the semester with specific deadlines to meet. Projects vary from year to year but will involve fundamental principles of video production, including basic shots, Lighting, Microphone and Audio Recording techniques, Scriptwriting, and Technical Editing. This is a production-based class where the students will develop and employ the necessary skills that simulate the demands of the media industry.

**UC approved; meets the 'f' requirement*

#10850 – HONORS WRITING FOR TV & FILM (Cinema Honors – 12th Grade)

5 Credits | Spring Semester

This dynamic filmmaking course focuses on advancing students' creative writing and production skills. With a strong emphasis on screenwriting techniques, students will learn to create a full beat sheet and craft the opening ten pages of a feature film screenplay. Engaging in the screening of feature films and reading screenplays, students will develop a solid foundation for constructing an original narrative capable of sustaining a screenplay length of approximately 110 pages. By the end of the course, students will have honed their storytelling abilities and

gained practical experience in the art of screenwriting, setting them on a path towards producing compelling cinematic narratives.

**UC approved; meets the 'g' requirement*

#10854 – DIRECTING FOR TV & FILM (Video Production II – 12th Grade)

5 Credits | Fall Semester

This production and writing orientated course emphasizes the skills learned throughout the Cinema Arts Programs. This class further explores contemporary and creative ways to craft short films. Students will continue to practice advanced editing using our Adobe Premiere systems and will create a short film for the supplemental material portion of your College Application. Special emphasis is be placed on the development of stories based on personal emotional obstacles and/or life experiences they have experienced and overcome.

**UC approved; meets the 'f' requirement*

Medical Program

The Med Program, a collaborative initiative between Providence High School and Providence Health System, is specifically crafted to empower students as they embark on their journey toward careers in healthcare. This unique partnership not only aligns with the educational mission of Providence High School but also integrates the expertise and resources of Providence Health System, fostering a holistic and immersive learning experience. Our program distinguishes itself through a student-centric approach, tailoring academic and extracurricular paths for each individual based on their unique needs and passions. This collaborative effort between Providence High School and Providence Health System is not merely an educational program; it's a transformative experience that equips students with the skills, knowledge, and passion needed to excel in the diverse and rewarding field of healthcare. Together, we are shaping the future leaders and innovators of the healthcare industry.

Criteria for acceptance into the Medical Program:

- Written personal statement satisfying requirements listed on the application
- Record of high academic performance in 6th, 7th, and 8th grades
- Enthusiasm, motivation, and commitment
- Eagerness to participate in all activities/projects, including service hours and volunteering at different agencies

Criteria for continuation in Medical Program:

- Continued high level of personal interest and engagement in core content and various extension opportunities.
- Adherence to program guidelines and high quality of volunteer work at assigned healthcare facilities in the completion of 11th and 12th grade internship.
- Cumulative GPA of 3.0 or higher
- Approval of Program Faculty and Academic Leadership

Medical Program Scope and Course Sequence

Grade Level Requirements	Required Medical Courses & Experiential Learning Hours
9 th Grade	Health, Disease, & Healthcare (#10614) Biology Honors HC1 (#10621)
10 th Grade	Chemistry Honors HC2 (#10638)
11 th Grade Electives (Meets Medical Program Requirements)	<p>Medical Program 11th Graders may select from the following:</p> <p style="text-align: center;">Anatomy & Physiology (#10660) AP Biology (#10650), AP Chemistry (#10633), Nutrition (#10655), Kinesiology (#10665), CP Physics (#10642), Physics Honors (#10640), or AP Physics (#10635 or #10647)</p> <p style="text-align: center;">+</p> <p style="text-align: center;">Successful completion of 70 hours of experiential learning</p>
12 th Grade	<p style="text-align: center;">Genetics & Biotechnology (#10672) Biomedical Ethics (#10634)</p> <p style="text-align: center;">+</p> <p style="text-align: center;">Successful completion of 70 hours of experiential learning</p>

**#10614 - HEALTH, DISEASE & HEALTH CARE (9th Grade)
MEDICAL PROGRAM, YEAR 1**

10 Credits | One Year

In this course, we commence with a comprehensive exploration of the historical evolution of public health practices, offering insights into how this field has shaped our modern understanding of health and well-being. We then delve into a survey of the core functions and essential services within the realm of public health. Environmental Health, a fundamental component of Public Health, receives particular attention, with a strong focus on understanding how our environment profoundly impacts our health. We also examine the legal framework of environmental justice. Our investigation encompasses factors ranging from air and water quality to food safety and occupational health, providing a thorough understanding of the various elements that directly influence our overall well-being. Community Health assumes a central role, emphasizing the importance of comprehending the social context and determinants that mold the health of communities. Throughout the course, you will acquire key principles for strategically planning interventions aimed at safeguarding and enhancing public health within diverse community settings. Epidemiology, another crucial component of Public Health, equips you with the knowledge and skills required to effectively assess, control, and prevent diseases and health issues. The course provides a comprehensive survey of major study designs and statistical techniques, with a strong emphasis on applying epidemiological concepts in real-world public health scenarios. Assessment in this course will include a group project-based assessment, where students will have the opportunity to apply their knowledge and skills to address real-world public health challenges collaboratively.

**UC approved; meets the 'g' requirement*

**#10621 - BIOLOGY HONORS HC1 (9th Grade)
MED PROGRAM, YEAR 1**

10 Credits | One Year

For prerequisites and course description, please refer to the Science Department course description for Honors Biology (#10622).

**UC approved; meets the 'd' requirement*

**#10638 - CHEMISTRY HONORS HC2 (10th Grade)
MED PROGRAM, YEAR 2**

10 Credits | One Year

For prerequisites and course description, please refer to the Science Department course description for Honors Chemistry (#10632). The curriculum differs slightly for the separate Medical Program cohort in that the case studies they use for class readings and discussions are specific to the field of health care.

Students tour Providence Saint Joseph Medical Center throughout the school year & engage with special guest speakers who are actively involved in the field of Health Care. Medical Program Director approval required for continuation.

**UC approved; meets the 'd' requirement*

#10672 - GENETICS & BIOTECHNOLOGY (12th Grade)
MED PROGRAM, YEAR 4
5 Credits | Fall Semester

Prerequisites: B or higher in Biology (#10620, #10621, #10622, or #10650); and B or higher in Chemistry (#10630, #10632, #10638, or #10633)

This college-level course is structured to provide a comprehensive understanding of students' DNA makeup while introducing the intriguing domains of epigenetics and epitranscriptomics. Emphasizing gene regulation mechanisms independent of DNA sequence alterations, the curriculum delves deeply into molecular intricacies: DNA and RNA modifications, histone adjustments, chromatin remodeling, non-coding RNAs, and RNA editing.

Discussions will encompass pivotal studies showcasing the roles of epigenetics and epitranscriptomics in diverse developmental stages, natural aging, environmental influences, and prevalent diseases like cancer, obesity, neurological disorders, and inflammatory conditions. Regular readings from scientific journals will be an integral part of the coursework.

Moreover, students will gain familiarity with a spectrum of molecular techniques and model organisms commonly employed in the vibrant field of epigenetic research. The course design integrates field experiences and guest lectures, facilitating visits to local research labs to provide practical insights.

In addition, the course will involve reading concise review papers summarizing key terminologies and field-specific techniques for class discussions. Genetic case studies focusing on unique facets of ancient DNA analyses will sharpen interpretive skills, adding depth to the learning experience.

**UC approved; meets the 'g' requirement*

#10634 - BIOMEDICAL SCIENCE & ETHICS (12th Grade)
MED PROGRAM, YEAR 4
5 Credits | Spring Semester

The rapid rise of CRISPR-Cas9 technology has revolutionized biotechnology, giving rise to unprecedented bioethical, social, and legal considerations in medicine, agriculture, livestock management, and environmental conservation. Bioethics, a thought-provoking exploration of ethical dilemmas arising from advances in science, medicine, and technology, explores these emergent issues. This course delves into fundamental ethical principles governing healthcare, research, and biotechnological innovations. Topics include ethical frameworks in healthcare, emerging biotechnologies like CRISPR-Cas9, clinical ethics, research ethics, global health equity, and the ethical responsibilities of physicians in providing informed consent for medical interventions. With each case, students engage in in-depth research to evaluate how current policies, procedures, and laws respond to and regulate each scenario. Through case studies and discussions, students develop critical thinking and ethical reasoning essential for

navigating complex bioethical issues within the ever-evolving landscape of modern science and technology.

**UC approved; meets the 'g' requirement*

Important Note: Juniors in the medical program must select an approved third year of science. Refer to Medical Program Course Sequence on page 68.

Medical Program Internship Information and Requirements

HOSPITAL INTERNSHIP & PROJECTS (11th Grade)

One Year

Juniors in the Medical Program are responsible for setting up their own participation in departmental and clinical internships at Providence Saint Joseph Medical Center or other Medical pre-approved health care facilities. Rotations will consist primarily of observation time with limited hands-on training.

A minimum requirement of 12 hours per month for the months of August through May, with 2 rotations in a year (Aug-Dec) (Jan-May) to complete at least 100 hours. To facilitate a smooth process, it is highly recommended that students begin this process prior to the end of their sophomore year, due to a month-long period necessary for processing paperwork.

Additionally, each student must complete four (4) specific projects, and those can be a combination of any of the following: community workshop/health fair, health care or science academic competition, and writing a letter to a legislative body about a health care related concern or suggestions for a better system of access to/delivery of health care.

HOSPITAL INTERNSHIP & PROJECTS (12th Grade)

One Year

Seniors in the Medical Program are responsible for setting up their own participation in departmental and clinical internships at Providence Saint Joseph Medical Center or other Medical pre-approved health care facilities. Rotations will consist primarily of observation time with limited hands-on training.

A minimum requirement of 12 hours per month for the months of August through May, with 2 rotations in a year (Aug-Dec) (Jan-May) to complete at least 100 hours.

Additionally, each student must complete FOUR specific projects- A combination of any of the following: community workshop/health fair, health care/science academic competition, and writing a letter to a legislative body about a health care related concern or suggestions for a better system of access/delivery of health care.

Technology Program

Providence High School's Technology Program is designed as a broad-based introduction into various kinds of technology, providing a launching pad for further college study and industry application. Recognizing the challenges faced as members of a global society, we fully embrace the Values and the Mission of the Sisters of Providence and seek application of these values in today's technologically enhanced world. Faith and Technology are not mutually exclusive; they are intertwined. Students enrolled in this program will explore various forms of today's technology, while recognizing and advocating respect for the global community in which they live. At the completion of the program, students will have acquired a strong foundation in modern technology in anticipation of further study at the college/university level.

Technology Program Goals and Expected Outcomes

The Technology Program is an elective enrichment program, with the specific purpose of promoting further study in today's world of information science and technology. In accordance with the ISTE National Educational Technology Standards, students will participate in a hands-on learning environment that features collaboration, exploration, development, and growth. The primary goal of the program is to create well-informed individuals who have not only a sense of prospective futures in technology, but also have an understanding and a respect for the ethics and social issues involved in our changing world. Students are encouraged to explore various avenues of technology to be better informed when making long-range plans for their future education and career paths.

- 20-30 students are typically selected at the freshman level.
- Transfer applicants are considered on a case-by-case basis.
- The Program has an annual enrollment fee

Criteria for acceptance into the Technology Program

- In addition to a general admissions interview with a PHS staff or faculty member, all applicants must take part in an additional interview with a Technology Program administrator.
- Submit a personal statement satisfying requirements listed on the application
- Record of high academic performance in 6th, 7th, and 8th grades
- Enthusiasm, motivation, and commitment
- Eagerness to participate in all activities/projects, including any related after school events

Criteria for continuation in the Technology Program

- Continued high level of interest
- Cumulative GPA of 2.5 or higher
- Class participation and GPA of 3.0 or higher in all program classes
- Participation in triad conferences with Program Director
- Approval of Program Director and Administration

Technology Program Scope and Course Sequence

Grade Level Requirements	Required Technology Courses
9 th Grade	Game Programming I (#10131) & Game Programming II (#10145)
10 th Grade	Robotics I (#10171) & Robotics II (#10181)
11 th Grade	AP Computer Science: CS Principles (#10192) OR AP Computer Science A (#10190)
12 th Grade	<p><u>Tech Program Seniors may select from the following:</u></p> <p style="text-align: center;">Cybersecurity (#10199), or Web Design (#10197), Or Data Science in fall (#10196) <u>and</u> Intro to A.I. in spring (#10194)</p>

#10171 - ROBOTICS I: Introduction to VEX (9th Grade)

5 Credits | Fall Semester

Prerequisites: *Game Programming I (#10131); and Game Programming II (#10145)*

Robotics is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous mobile robots using VEX Robotic Design System. Basic mechanics and electronics will be covered in this course, leading to the building of a small remote-controlled robot. Students will learn about real life applications in various industries, including the medical and media fields. Topics will include robot classification, manipulators and end effectors, robot drive systems, servo systems, payload, repeatability, and accuracy.

**UC approved; meets the 'g' elective requirement*

#10181 - ROBOTICS II (9th Grade)

5 Credits | Spring Semester

Prerequisite: *Robotics I (#10171)*

Continuing study in the world of robotics. Course information will be tied to lab experiments; students will work in groups to build and test increasingly more complex mobile robots, culminating in an end-of-semester robot contest. We will be using VEX Robotic Design System as our platform. Students will be divided into groups and complete a variety of robot construction and programming activities within the confines of these groups.

**UC approved; meets the 'g' elective requirement*

#10192 - AP COMPUTER SCIENCE PRINCIPLES (11th Grade)

10 Credits | One Year

Recommended Prerequisites: *Game Programming I (#10131); Game Programming II (#10145); Robotics I (#10171) and Robotics II (#10181); Department Chair approval*

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

**UC approved; meets the 'd' science elective standards*

#10190 - AP COMPUTER SCIENCE A (11th and 12th Grade)

10 Credits | One Year | Block 0

Recommended Prerequisites: *Algebra I with a grade in the "A" range; strong foundation of basic linear functions, composition of functions, and problem-solving strategies that require multiple approaches and collaborative efforts. In addition, students should be able to use a Cartesian (x, y) coordinate system to represent points on a plane. This course will run before the regular school day during the "zero" period morning session.*

**UC approved; meets the 'c' math elective standards*

#10199- CYBERSECURITY (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *AP Computer Science Principles (#10192) or AP Computer Science A (#10190)*

As our world becomes increasingly dependent on technology, cybersecurity is a topic of growing importance. It is crucial that companies and individuals take precautions to protect themselves from the growing threat of cyber-attacks. This course prepares students with crucial skills to be responsible citizens in a digital future. Students will learn foundational cybersecurity topics including digital citizenship and cyber hygiene, the basics of cryptography, software security, networking fundamentals, and basic system administration and all through the CodeHS web-based platform and the Gen Cyber approved lesson plans. Students will complete projects at the end of each module, and a culminating course project where they will complete a simulated hack walkthrough. This is not an intensive coding course, but students will learn basic SQL, and will utilize basic HTML and JavaScript within specific contexts, and will be provided support within those contexts. Students modify and run programs in the browser using the CodeHS online editor. Students will also participate in simulated cyber-attacks on safe sites in order to learn how to mitigate cyber-attacks.

**UC approved; meets the 'g' elective requirement*

#10197 - WEB DESIGN (11th & 12th Grade)

10 Credits | One Year

Prerequisites: *AP Computer Science Principles (#10192) or AP Computer Science A (#10190)*

The CodeHS Web Design course is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS and will create their own live homepages to serve as portfolios for their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi-page websites. Students will learn

the foundations of user interface design, rapid prototyping, and user testing, and will work together to create professional, tangible, mobile responsive websites.

**UC approval pending to meet the 'd' science elective standards*

#10196 - DATA SCIENCE (12th Grade)

5 Credits | Fall Semester

Prerequisites: AP Computer Science Principles (#10192) or AP Computer Science A (#10190)

This Data Science course follows the curriculum of CodeHS and requires a good deal of independent learning. Industries of all types are hiring data scientists to analyze and highlight the hidden patterns in data. This course equips students with the essential skills of a data scientist which include data collection, cleanup, transformation, analysis, and visualization. Students will write algorithms, tell data stories, and build statistical models using Python libraries. They will use the same tools that data scientists use to draw meaningful insights and solve organizational problems. This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Each module of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises. Students write and run Python programs in the browser using the CodeHS editor. Students complete a project within each module while also learning and applying new material. Many lessons include a formative short multiple-choice quiz to check for understanding. At the end of each module, students take a summative multiple-choice quiz that assesses their knowledge of the concepts covered in the module.

**UC approved; meets the 'g' elective requirement*

#10194 - INTRO TO ARTIFICIAL INTELLIGENCE (12th Grade)

5 Credits | Spring Semester

Prerequisites: AP Computer Science Principles (#10192) or AP Computer Science A (#10190)

The Introduction to Artificial Intelligence course teaches students important programming concepts that enable the use of A.I. in computer science and society at large. Students will learn how to incorporate basic Artificial Intelligence algorithms in their own work and consider the social and ethical implications of how A.I. is used and plans on how it should be used. Students will develop a series of projects that illustrate the variety of ways A.I. can be used to optimize and predict information and processes. The course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises. Each unit contains a large-scale project that students will gradually add to as they learn new content.

**UC approved; meets the 'g' elective requirement*

#10717 - ARTIFICIAL INTELLIGENCE & SOCIAL JUSTICE (10*,11,12th Grade)

5 Credits | Fall Semester

Prerequisites: for 10th grader to join they must have an A in English I (#10810), or B or higher in English I Honors (#10812)

This course will explore the complex intersections of race, technology, artificial intelligence (AI), and social justice. Students will examine how technology, particularly AI, can perpetuate or challenge racial disparities and inequalities. They will critically analyze real-world examples of AI-driven systems that have had discriminatory outcomes, and they will discuss potential solutions and strategies for promoting racial equity in the tech industry and beyond.

**PENDING UC approved; meets the 'g' elective requirement*

#10715- INTRO TO ENGINEERING DESIGN (12th Grade)

10 Credits | One Year

Students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software.

**PENDING UC approved; meets the 'g' elective requirement*