



2026-2027  
Curriculum Guide

# CONTENTS

<b>MISSION .....</b>	<b>7</b>
<b>PHILOSOPHY .....</b>	<b>7</b>
<b>PORTRAIT OF THE GRADUATE .....</b>	<b>7</b>
<b>NONDISCRIMINATION POLICY .....</b>	<b>7</b>
<b>COURSE SELECTIONS.....</b>	<b>8</b>
<b>SCHEDULE CHANGES .....</b>	<b>8</b>
<b>COURSE OF STUDIES.....</b>	<b>8</b>
<b>HONORS/AP COURSE PLACEMENT .....</b>	<b>10</b>
<b>ONLINE COURSES .....</b>	<b>10</b>
<b>INDEPENDENT STUDY.....</b>	<b>10</b>
<b>FOCUS PROGRAMS.....</b>	<b>11</b>
<b>BUSINESS AND COMMUNICATIONS.....</b>	<b>11</b>
<b>JOURNALISM AND MEDIA .....</b>	<b>11</b>
<b>LAW AND SOCIAL JUSTICE .....</b>	<b>12</b>
<b>MEDICAL AND HEALTH SCIENCE.....</b>	<b>12</b>
<b>STEM.....</b>	<b>12</b>
<b>SUMMER SCHOOL: REMEDIATING COURSES .....</b>	<b>13</b>
<b>ENRICHMENT COURSES.....</b>	<b>13</b>
<b>GRADUATION REQUIREMENTS.....</b>	<b>13</b>
<b>LOUISVILLE’S GPA CALCULATION.....</b>	<b>14</b>
<b>PREPARING FOR COLLEGE.....</b>	<b>14</b>
<b>REQUIREMENTS FOR THE UNIVERSITY OF CALIFORNIA .....</b>	<b>15</b>
<b>REQUIREMENTS FOR THE CALIFORNIA STATE UNIVERSITIES .....</b>	<b>16</b>
<b>ADMISSION POLICIES OF OTHER FOUR YEAR COLLEGES AND UNIVERSITIES .....</b>	<b>17</b>
<b>CALIFORNIA COMMUNITY COLLEGES.....</b>	<b>17</b>
<b>COURSE DESCRIPTIONS .....</b>	<b>18</b>
<b>COUNSELING DEPARTMENT .....</b>	<b>18</b>
<b>TEACHING AIDE.....</b>	<b>18</b>
<b>STUDY HALL.....</b>	<b>18</b>
<b>ENGLISH DEPARTMENT .....</b>	<b>18</b>

ENGLISH I [0308] .....	18
ENGLISH I HONORS [0358] .....	18
ENGLISH II [0314] .....	18
ENGLISH II HONORS [0360] .....	18
ENGLISH III [0326] .....	19
ENGLISH III HONORS [0366] .....	19
ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION [0362] .....	19
ENGLISH IV [0330] .....	19
ENGLISH IV HONORS [0368] .....	19
ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION [0364] .....	20
CREATIVE WRITING I [310] .....	20
CREATIVE WRITING II [312] .....	20
SPEECH AND DEBATE [0306] .....	21
Multi-Media Journalism I [0302] .....	21
Multi-Media Journalism II [0304] .....	21
<b>MATHEMATICS &amp; COMPUTER SCIENCE DEPARTMENT .....</b>	<b>21</b>
ALGEBRA I [0612] .....	21
ALGEBRA I HONORS [0664] .....	21
GEOMETRY [0614] .....	22
GEOMETRY HONORS [0666] .....	22
ALGEBRA II [0616] .....	22
ALGEBRA II/TRIGONOMETRY HONORS [0668] .....	22
PRE-CALCULUS [0682] .....	23
PROBABILITY & STATISTICS [0678] .....	23
CALCULUS [0672] .....	23
CALCULUS HONORS [0680] .....	23
ADVANCED PLACEMENT CALCULUS AB [0670] .....	23
ADVANCED PLACEMENT CALCULUS BC [0674] .....	23
AP STATISTICS [0648] .....	24
MULTIVARIABLE CALCULUS & DIFFERENTIAL EQUATIONS [0694; One Schoolhouse] .....	24
Introduction to Computer Science [One Schoolhouse] .....	24
AP COMPUTER SCIENCE A [0688; One Schoolhouse] .....	25
AP COMPUTER SCIENCE PRINCIPLES [0690; One Schoolhouse] .....	25
<b>MODERN LANGUAGE DEPARTMENT .....</b>	<b>25</b>
SPANISH I [0408] .....	25

SPANISH I HONORS [0460] .....	25
SPANISH II [0410] .....	26
SPANISH II HONORS [0462] .....	26
SPANISH III [0412] .....	26
SPANISH III HONORS [0464] .....	26
SPANISH IV [0414] .....	26
ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE [0466] .....	27
ADVANCED PLACEMENT SPANISH LITERATURE AND CULTURE [0490] .....	27
FRENCH I [0430] .....	27
FRENCH I HONORS [0488] .....	27
FRENCH II [0432] .....	27
FRENCH II HONORS [0478] .....	27
FRENCH III [0434] .....	28
FRENCH III HONORS [0480] .....	28
FRENCH IV [0436] .....	28
ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE [0482] .....	28
<b>PERFORMING ARTS DEPARTMENT .....</b>	<b>28</b>
CREATIVE DANCE IA [0734] .....	28
CREATIVE DANCE IB [0736] .....	29
CREATIVE DANCE IIA [0748] .....	29
CREATIVE DANCE IIB [0750] .....	29
CONCERT DANCERS [0710] .....	29
DRAMA IA [0738] .....	30
DRAMA IB [0740] .....	30
DRAMA II [0742] .....	30
MUSICAL/PLAY PRODUCTION [0719] .....	30
TECHNICAL THEATER CRAFT [0758] .....	31
CHORUS I [0732] .....	31
CHORUS II [0724] .....	31
MUSICAL THEATRE PERFORMANCE [0726] .....	31
AP MUSIC THEORY [0752] .....	31
POWER WALKING FOR FITNESS [0802] .....	32
STRENGTH CONDITIONING [0800] .....	32
TENNIS [0804] .....	32
VOLLEYBALL [0807] .....	32

PILATES/YOGA [0810] .....	32
INTERSCHOLASTIC ATHLETICS.....	32
HEALTH [0812] .....	33
<b>SCIENCE DEPARTMENT .....</b>	<b>33</b>
BIOLOGY [1014] .....	33
BIOLOGY HONORS [1066] .....	33
ADVANCED PLACEMENT BIOLOGY [1068] .....	34
CHEMISTRY [1020] .....	34
CHEMISTRY HONORS [1088] .....	34
ADVANCED PLACEMENT CHEMISTRY [1074] .....	34
PHYSICS [1018].....	35
PHYSICS HONORS [1072].....	35
ADVANCED PLACEMENT PHYSICS 1 [1077].....	35
ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE [1098] .....	35
ENVIRONMENTAL SCIENCE [1016].....	36
ANATOMY/PHYSIOLOGY [1084].....	36
FORENSIC SCIENCE [One Schoolhouse] .....	36
NEUROSCIENCE [One Schoolhouse].....	36
SPORTS MEDICINE.....	37
<b>SOCIAL SCIENCE DEPARTMENT .....</b>	<b>37</b>
WORLD HISTORY AND GEOGRAPHY [1116] .....	37
WORLD HISTORY AND GEOGRAPHY HONORS [1160].....	37
ADVANCED PLACEMENT WORLD HISTORY: MODERN [1172] .....	38
THE MODERN WORLD [1120] .....	38
UNITED STATES HISTORY [1118] .....	38
ADVANCED PLACEMENT UNITED STATES HISTORY [1164].....	38
UNITED STATES GOVERNMENT & POLITICS [1104] .....	39
ECONOMICS [1106].....	39
ADVANCED PLACEMENT UNITED STATES GOVERNMENT/ECONOMICS [1166] .....	39
AMERICAN IDENTITY: AN ANALYSIS OF RACE, CLASS AND GENDER IN AMERICAN SOCIETY [1126].....	39
INTRODUCTION TO LAW [1108].....	40
ADVANCED PLACEMENT PSYCHOLOGY [1168] .....	40
GLOBAL HEALTH [1117; One Schoolhouse] .....	40
ADVANCED PLACEMENT HUMAN GEOGRAPHY [1184; One Schoolhouse] .....	40
BUSINESS AND ECONOMICS [1128; One Schoolhouse].....	41

<b>THEOLOGY DEPARTMENT .....</b>	<b>42</b>
WHO IS JESUS CHRIST? [0946] .....	42
THE MISSION OF JESUS CHRIST (THE PASCHAL MYSTERY) [0948] .....	42
PRAYER AND SACRAMENTS [0950] .....	42
THE CHURCH [0952] .....	42
THE BIBLE [0954] .....	42
CATHOLIC SOCIAL TEACHING [0956] .....	43
CHRISTIAN MORALITY [0958] .....	43
WORLD RELIGIONS [0960] .....	43
<b>VISUAL ARTS DEPARTMENT .....</b>	<b>43</b>
2-D STUDIO ART [0183] .....	43
3-D STUDIO ART [0187] .....	44
Advanced 3-D STUDIO ART [0197] .....	44
PHOTOGRAPHY [0169] .....	44
SEWING [0185] .....	44
POTTERY [0192] .....	44
ADVANCED PLACEMENT DRAWING [0157] .....	45
ADVANCED PLACEMENT 2-D ART AND DESIGN [0159] .....	45
ADVANCED PLACEMENT 3-D ART AND DESIGN [0195] .....	45
AP ART HISTORY [One Schoolhouse] .....	45
GRAPHIC DESIGN [0124] .....	46
ANIMATION [0123] .....	46
FILM STUDY & PRODUCTION I [0126] .....	46
FILM STUDY & PRODUCTION II [0132] .....	46
YEARBOOK [0190] .....	47

# **LOUISVILLE HIGH SCHOOL**

## **MISSION**

As a Catholic high school, Louisville educates young women in a vibrant, supportive learning community guided by the mission of the Sisters of St Louis to “work toward a world healed, unified and transformed.” Challenging academics and caring faculty empower each student to develop her confidence, integrity and faith to meet the needs of an ever-changing world.

## **PHILOSOPHY**

Louisville High School, a Catholic community, values the dignity and potential of each individual and serves as a center for academics within an atmosphere of spirituality, inclusivity, and outreach. A Louisville education inspires the personal development necessary for deep understanding and creative application of knowledge. This development calls forth the responsible use of freedom and courageous self-expression.

Louisville’s supportive environment empowers our students to freely explore new challenges and realize their potential in broad curricular and co-curricular areas. At Louisville, faculty and staff partner with parents to challenge students to become moral decision makers, to rejoice in diversity, and to assume an attitude open to change and growth. The school community fosters a reverence for nature, a respect for all peoples and their beliefs, an involvement in the quest for human rights, and a heightened awareness of the impact of women on the world.

## **PORTRAIT OF THE GRADUATE**

A Louisville graduate listens, questions, and engages to remain open to learning.

A Louisville graduate confidently accepts challenges and seeks solutions in order to heal, unify and transform.

A Louisville graduate develops and shares her creative talents to enhance her community.

A Louisville graduate prays, serves and forgives because she values the dignity and promise of each individual.

A Louisville graduate willingly acts with compassion and generosity to build meaningful and inclusive relationships.

## **NONDISCRIMINATION POLICY**

Louisville High School admits students of any race, color, or national or ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to students at the school. The school does not discriminate on the basis of race, color, disability, racial or ethnic origin, in the administration of its education policies and practices, admission policies, scholarship programs, and athletic and other school administered programs.

# COURSE SELECTIONS

Students should review the Curriculum Guide prior to requesting courses on My Louisville. Particular attention should be given to prerequisites for courses. All students must select a minimum of seven classes, five of which are academic solids, each semester. Students are encouraged to take more than the minimum course requirements.

Each student will have an appointment with their counselor to review their requested courses, discuss progress toward graduation and college requirements, and address any other schedule-related questions. This appointment will not occur until the student has submitted their online course selections. At the appointment, the Course Selection Worksheet will be completed. The student and parent/guardian must sign this form and return it to the counselor. Signatures on the Course Selection Worksheet serve as acknowledgement and agreement that all course requests made during this process are binding.

Every effort is made to fill a student's course requests, though master scheduling constraints sometimes make it impossible to do so.

Louisville High School reserves the right to modify the master schedule at its sole discretion in order to achieve the educational goals of the school.

# SCHEDULE CHANGES

Changes in student schedules are processed through the Counseling Department. Students are given two weeks at the beginning of each semester to request schedule changes. In order to request a change, a student must make an appointment to meet with their counselor. Students may request a schedule change in certain circumstances and only with a valid reason. Impact to class size and a student's schedule will be considered before determining if the student's request can be granted. It should be noted that if a student receives the courses they requested during the course selection process, a request for a schedule change will not be honored. Further, schedule change requests to accommodate teacher preference or to be in classes with friends will not be honored either.

A student may request to drop a course after two weeks and prior to the last day of the quarter, although this should only be done when there are documented extenuating circumstances. In this event, the course will remain listed on the student's transcript, and "withdraw/pass" or a "withdraw/fail" on their transcript, depending on their status at the time of withdrawal. The GPA will not be impacted by the withdrawal. Students will not be allowed to withdraw from a course for any reason after the end of the first quarter of the semester.

# COURSE OF STUDIES

At Louisville, learning centers in traditional college preparatory courses and expands to include levels of education that call forth the full potential of every student. Courses in theology, English, mathematics, modern language, science and social science form the core of the curriculum. In addition, students may choose from a variety of electives in these areas, especially in their junior and senior years. The interests and abilities of students in the arts: fine, practical and performing, are developed through courses in art, computer technology, dance, drama, music, and speech, while all students have an opportunity to develop wellness and physical fitness through a choice of electives in the field of physical education.

In addition to a wide selection of courses, Louisville provides a strong counseling department to assist the student in making choices, adjusting to change, and coping with personal, social, and spiritual problems. Extra and co-curricular activities play an integral part in the life of every Louisville student. Each department enhances classroom learning with appropriate activities, enabling students to put into practice what they have learned in the classroom. At Louisville, student initiative and student responsibility are fostered through a variety of activities that are student initiated, student performed, and student evaluated. All activities aim at building Christian community. The emphasis is primarily on the process of students working together with faculty and parents to grow as members of the whole Christian community.

## Honors Courses

Louisville High School offers honors coursework to students who demonstrate a firm foundation in basic skills and who have shown interest and ability in the curricular area. Honors courses are offered in English, mathematics, modern language, science and social science. These courses are given the weight of an extra point in the student's grade point average.

## Advanced Placement Courses

The fundamental objectives of an Advanced Placement course are the following:

- Involvement in an enriching educational activity that enhances intellectual inquiry
  - Increased opportunity before college admission to acquire college study habits and to meet the challenges of independent investigation
  - Early completion of lower division college requirements increasing opportunity for broader educational experience while enrolled at the university
  - Opportunity for qualified students to present a stronger admissions record to the college of their choice
- Students should check with the colleges and universities of their choice to learn more about their individual policies concerning credit for AP courses.

Advanced Placement courses are offered at Louisville in English: Language and Composition and Literature and Composition; Mathematics: Calculus AB, Calculus BC, Statistics, Computer Science\* and Computer Science Principles\*; Modern Language: French Language, Spanish Language, and Spanish Literature; Performing Arts: Music Theory; Science: Biology, Chemistry, Physics 1, and Environmental Science; Social Science: World History, United States History, United States Government & Politics, and Psychology; Visual Arts: Studio Art: Drawing, Studio Art: 2D Design, Studio Art: 3D Design, Art History\*. The AP exams, like the College Board's admissions tests, are prepared by committees of secondary school and college teachers who also write descriptions of the courses. Essay questions as well as objective questions constitute the test format. The modern language examinations include a recorded listening comprehension section. These courses are given the weight of an extra point in the student's grade point average, provided the grade earned is a C-/70% or higher. An exam fee for each AP course/exam taken will apply.

All students enrolled in AP Courses are required to take the AP Exam in May. Please note that if a student drops an AP Course at semester after her test has been ordered, there is a \$40 fee.

\*Denotes courses provided through One Schoolhouse.

# HONORS/AP COURSE PLACEMENT

Certain prerequisites must be met for a student to be eligible for Honors/AP courses. Specific prerequisites are noted in the course description for each course. While student eligibility is tentatively approved early in the second semester of the year prior, final approval is dependent on a student's second semester grades and teacher recommendation.

A student must be approved to take an Honors/AP course. Students who are not approved to take an Honors/AP course may appeal the decision by submitting the Honors/AP Appeal Form to the Assistant Principal for Academics and Student Services, once they have completed most coursework for 2<sup>nd</sup> semester (no earlier than May 21st and no later than May 27<sup>th</sup>). Late appeals will not be accepted.

Since a significant amount of time is invested and a number of components are initially considered in making placement decisions, a formal appeal should only be filed if/when there is documented evidence of sustained improvement in the student's performance, and new and compelling information has developed since the initial placement decision was made. The final decision on a student's eligibility will be made in consultation with the student's teacher, respective department chair, and the Assistant Principal for Academics and Student Services. Notification of this decision will be emailed to the student. Please note that all decisions are final.

## ONLINE COURSES

Louisville High School is a charter affiliate school with One Schoolhouse. As such, Louisville students may enroll in online courses as electives or summer enrichment. These courses are highly interactive and are taught by teachers experienced in all-girl education. College preparatory and AP courses are available for students interested in exploring an area of study that is either beyond their required work or beyond what fits in their present schedule.

These courses and the grade earned will be incorporated into the Louisville transcript and calculated in the Louisville GPA. Participation must be approved by the Assistant Principal for Academics and Student Services. Students who are approved will receive an agreement that must be signed by the student and the parent/guardian and filed with the Assistant Principal for Academics and Student Services. Information regarding UC approval of these online courses can be found under the respective course description. An additional course fee of \$995.50 applies to all yearlong One Schoolhouse courses taken and \$600.00 for one semester courses taken.

The proctoring of final exams for courses taken through other online service providers, not One Schoolhouse, must be coordinated between the student and the service provider. If the exam needs to be proctored on Louisville's campus by a Louisville faculty member, a \$50 fee will be charged for this service. Scheduling of the proctoring of an exam must happen through the Assistant Principal for Academics and Student Services.

## INDEPENDENT STUDY

Independent study may be a possibility for the Louisville student interested in exploring an area of study that is beyond her required work. This study is undertaken with the recommendation or permission of the teacher and the Assistant Principal for Academics and Student Services.

A contract must be signed by the student and by the supervising teacher to indicate the extent of the projected work, the reasons for the choice of an independent study course and the expected length of the course. Copies of the contracts are kept on file with the Assistant Principal for Academics and Student Services. The student must schedule a study period so that time will be available during the school day for meetings with the teacher supervising the independent study.

Independent study contracts can be acquired through the Assistant Principal for Academics. And Student Services.

## FOCUS PROGRAMS

These programs offer students in their junior and senior year an opportunity to direct their studies in one of the following fields: Business and Communications, Journalism and Media, Law and Social Justice, Medicine and Health Sciences, and STEM (Science, Technology, Engineering and Mathematics). After completion of a Career Readiness Seminar, students are given the opportunity to experience their chosen field both on campus, through coursework and extracurricular activities, and in the professional world, through job shadowing, informational interviews, field trips and/or guest speaker lectures.

Interested students can apply to one of the Focus Programs in the spring of their sophomore year. Students must be in good academic standing (with no D's or F's), have honorable citizenship, receive parent/guardian approval to participate, and be able to commit to participation outside of regular school hours. Once applications are received, the Focus Programs Director will review applications and determine acceptance into one of the programs. Students accepted into a program will select their courses according to the program requirements with the guidance of their grade level counselor and the Assistant Principal for Academics and Student Services. To remain in the program, students must meet the yearly program requirements and deadlines as well as maintain a strong work ethic and good academic standing. The yearly participation fee for any FOCUS Program \$400.

## BUSINESS AND COMMUNICATIONS

With an emphasis on entrepreneurship, this program channels students' diverse interests towards a series of experiential learning opportunities designed to complement and broaden their traditional studies. Students may explore a broad spectrum of fields, including event planning, social media communications, marketing and advertising, non-profit advancement, accounting, banking/advising, human resources, and project management. Students participate in clubs such as Investing, Entrepreneurs, and Girl Up. Upon completion of this two-year program, students acquire skills and techniques necessary for success in post-secondary studies and professions in Business and/or Communications. Course requirements include one or more of the following:

- Speech and Debate
- AP Statistics, Probability and Statistics
- AP Microeconomics (One Schoolhouse)
- AP Macroeconomics (One Schoolhouse)
- Business and Economics (One Schoolhouse)

## JOURNALISM AND MEDIA

This program is designed for young women who wish to enhance their educational experience by fostering their creative expression. As media makers and budding journalists, students will receive an experiential look at these ever-developing and fast-paced fields. Through course offerings and program activities, students will

experience hands-on collaboration in the production of video and written media, increasing their knowledge and skills in these fields. Course requirements include one or more of the following:

- Multi-Media Journalism I, II
- Creative Writing
- Speech and Debate
- Graphic Design
- Film Study & Production I, II
- Yearbook
- Photography

## LAW AND SOCIAL JUSTICE

This program is designed for young women whose academic and career goals relate to politics, the American legal system, and social welfare. The various courses and activities of this program will help students develop analysis, interpretation, research, ethical, and communication skills. Among the wide-range of possible activities that students may participate in are the Mock Trial and Model UN Competition. Course requirements include one or more of the following:

- AP US Government
- Introduction to Law
- American Identity
- Speech and Debate
- AP Psychology
- Forensic Science (One Schoolhouse)
- Global Health (One Schoolhouse)

## MEDICAL AND HEALTH SCIENCE

The Medical and Health Science program is designed for students interested in the broad spectrum of health care careers. It is important to understand the differences in both education requirements and work environments of doctors, researchers, nurses, physical therapists, dietitians, psychologists and others. Many students discover health care fields that they did not even know existed. Upon completion of the program, students are better able to make decisions about what facet of health care they would like to pursue—greatly affecting their choices of universities and majors after graduation from Louisville. Course requirements include one or more of the following (beyond biology, chemistry and physics):

- AP Biology
- AP Chemistry
- AP Statistics, Probability and Statistics
- Anatomy/Physiology
- AP Psychology
- Sports Medicine
- Neuroscience (One Schoolhouse)
- Global Health (One Schoolhouse)

## STEM

The STEM program helps define the link between Science, Technology, Engineering, and Mathematics coursework and the many exciting career paths these subjects provide. From hands-on experiences both inside and outside the classroom, to on-the-job interaction with leading professionals, students gain the comprehensive education and skill-sets required to excel in STEM-related college coursework. The two-year program focuses on uncovering the powerful connections between theory and exciting real-world applications in the workplace, and provides students with a well-rounded foundation that will empower them to become the scientists and

innovators of tomorrow. Course requirements include one or more of the following (beyond calculus, chemistry and physics):

- AP Environmental Science, Environmental Science
- Introduction to Computer Science (One Schoolhouse)
- AP Computer Science A (One Schoolhouse)
- AP Computer Science Principles (One Schoolhouse)
- Multivariable Calculus and Differential Equations (One Schoolhouse)

## SUMMER SCHOOL: REMEDIATING COURSES

Students that earn a D (69%) or lower in a Louisville course can remediate an equivalent course at an approved accredited institution to improve knowledge and/or achieve a higher grade. Prior to enrolling, students must obtain approval from their counselor by completing the *Summer School Request Form* to ensure the institution offering the course is accredited and the course is UC, CSU, and NCAA approved. Credit may only be earned for a course once. Once a course is remediated, the effect of the lower grade will be removed from the cumulative GPA, and the higher grade will be calculated in its place. The initial course and grade will remain on the transcript as a record and will be indicated as a repeated class. Additionally, it is advisable for students to research prospective college admissions policies to understand how GPA calculations will be assessed.

## ENRICHMENT COURSES

Students may take courses at a summer school or community college other than Louisville for their own enrichment. These classes will not count towards Louisville prerequisites or fulfill Louisville graduation requirements. Written permission from the Assistant Principal for Academics and Student Services is required for dual enrollment. These courses are not included on the Louisville transcript. Students must submit a separate transcript to colleges for their consideration.

## GRADUATION REQUIREMENTS

A student at Louisville must complete a minimum of 240 credits prior to graduation; coursework must be completed at Louisville. A student must pass all courses taken in order to graduate.

Theology	8 semesters
English	8 semesters
Mathematics	6 semesters
Science	4 semesters
Biology (required)	2 semesters
Chemistry (required)	2 semesters
Physics (recommended)	2 semesters
Social Science	6 semesters
World History & Geography	2 semesters
United States History	2 semesters
United States Government	1 semester
Economics	1 semester
Modern Language	4 semesters
Physical Education (PE)	2 semesters*
Visual/Performing Arts	2 semesters
Health	1 semester

Electives

7 semesters

\*One semester of PE can be fulfilled through interscholastic athletic participation. The physical education requirement can also be fulfilled, in part or in whole, with dance classes offered through the Performing Arts Department.

A student who receives an “F” in a subject at the end of a semester must make up that grade by repeating the course. A student receiving two or more “F” grades may be asked to withdraw from the school.

A student who receives a “D” in any course is encouraged to repeat the course as required by colleges and universities.

The Louisville GPA will reflect grades made up by repeating courses in a summer session if the previous grades earned were D’s or F’s. Any other course work completed in summer session will not be noted on a student’s transcript or included as part of the Louisville GPA. Further, units earned during summer session will only be applied towards a student’s total unit count when the units earned are for a previously earned F in a course. Classes taken while students are enrolled and prior to graduation will be added to their Louisville transcript. Courses taken/remediated after the student has graduated will not be added.

## LOUISVILLE’S GPA CALCULATION

A student’s cumulative unweighted and weighted GPA is recorded on their transcript. An unweighted GPA does not include extra grade points for Honors and/or Advanced Placement (AP) courses and is calculated on a 4.0 scale. A weighted GPA includes the extra grade points from Honors and/or AP courses and is calculated on a 5.0 scale.

Grade point average is calculated by dividing the total number of grade points earned for each course (based on the 4.0 or 5.0 scale) by the total number of courses taken. Credit is earned for grades of A through D in all courses. For information about remediated grades, please see the Summer School Remediated Courses section for more information.

<b>Grade Earned</b>	<b>4.0 Scale Grade Points (Unweighted)</b>	<b>5.0 Scale Grade Points (Weighted)</b>
A	4	5
B	3	4
C	2	3
D	1	2
F	0	0

## PREPARING FOR COLLEGE

College acceptance is based on a variety of factors that may include both academic and personal accomplishment. Colleges will look first at the rigor of the student’s curriculum, the grades earned in that curriculum and grade trends, and in some cases, the student’s performance on the SAT or ACT (if colleges require standardized tests). They may also consider a student’s co-curricular accomplishments, their personal statements, as well as recommendations from counselors and teachers.

Students should consult the websites of the colleges to which they plan to apply in order to get a description of entrance requirements and recommended high school preparation.

## REQUIREMENTS FOR THE UNIVERSITY OF CALIFORNIA

Most students enter the University through Eligibility in the Statewide Context. To be eligible a student must earn a high school diploma or its equivalency and satisfy the following three requirements:

**Subject Requirement:** Complete the 15 year-long high school courses known as the “a-g” courses.

**Examination Requirement:** There is no standardized test requirement for UC admission. UC will not consider SAT or ACT test scores when making admissions decisions or awarding scholarships. Test scores submitted as part of the application may be used as an alternate method of fulfilling minimum requirements for eligibility or for course placement after matriculation at UC.

<https://admission.universityofcalifornia.edu/admission-requirements/first-year-requirements/>

**Scholarship Requirement:** In order to be considered for admission, applicants must have earned a minimum GPA of 3.0 in all A-G courses completed in summer after 9th grade to summer after 11th grade, with no grade lower than a C. UC awards extra grade points for grades received in approved honors-level courses to a maximum of eight semesters, including no more than four honors points from 10th grade.

Required A-G Courses:

A. History/Social Science—2 years required

Two years of history/social science, including one year of world history, cultures or historical geography and one year of U.S. History; or one half-year of U.S. History and one half-year of civics or American government.

B. English—4 years required

Four years of college-preparatory English that include frequent writing, from brainstorming to final paper, as well as reading of classic and modern literature. No more than one year of ESL-type courses can be used to meet this requirement.

C. Mathematics—3 years required, 4 years recommended

Three years of college-preparatory mathematics, that include the topics covered in elementary and advanced algebra and two- and three-dimensional geometry.

D. Laboratory Science—2 years required, 3 years recommended

Two years of college-preparatory science, including or integrating topics that provide fundamental knowledge in two of these three subjects: biology, chemistry, or physics. One year of approved interdisciplinary or earth and space sciences coursework can meet one year of the requirement.

Computer Science, Engineering, Applied Science courses can be used in area D as an additional science (i.e., third year and beyond).

E. Language other than English—2 years required, 3 years recommended

Two years, or equivalent to the 2nd level of high school instruction, of the same language other than English are required. (Three years/3rd level of high school instruction recommended). Courses should emphasize speaking and understanding, and include instruction in grammar, vocabulary, reading, composition and culture.

F. Visual & Performing Arts (VPA)—1 year required

One year required, chosen from one of the following categories: dance, music, theater, visual arts or interdisciplinary arts. Two one-semester courses from the same discipline is also acceptable.

G. College Preparatory Electives—1 year required

One year (two semesters), in addition to those required in “a-f” above, chosen from the following areas: visual and performing arts (non-introductory- level courses), history, social science, English, advanced mathematics, laboratory science and a language other than English (a third year in the language used for the “e” requirement or two years of another language).

Note: At least seven of the 15 year long courses must be taken in your last two years of high school. Eleven “a-g” courses must be completed prior to the 12<sup>th</sup> grade/last year of high school. The courses you take to fulfill the Subject Requirement must be on your school’s University-certified course list. To see your school’s list, go to: <https://hs-articulation.ucop.edu/agcourselist>

**UC GPA Calculation:** The University calculates GPA for freshman applicants by assigning point values to the grades you earn, totaling the points and dividing the total by the number of “a-g” courses. Grade points are assigned as follows: A=4, B=3, C=2, D=1 and F=0 (+/- are not included).

Only the grades you earn in “a-g” courses taken in the 10th and 11th grades—including summer sessions—are used to calculate your preliminary GPA. Ninth-grade courses can be used to meet the 15-course Subject Requirement if you earned a grade of C or better, but they will not be included in your GPA for determining eligibility.

**Honors Courses:** The University assigns extra points for up to eight semesters of University-certified honors-level courses taken in the last three years of high school: A=5 points, B=4 points, C=3 points. No more than two yearlong UC-approved honors-level courses taken in the 10th grade may be given extra points. A grade of D in an honors course does not earn extra points.

The courses must be certified as honors courses by the University and must be in the following “a-g” subjects: history/social science, English, advanced mathematics, laboratory science, language other than English, and visual and performing arts. In these subjects as well as computer science, acceptable honors-level courses include Advanced Placement courses, UC-designated International Baccalaureate courses and college courses that are transferable to the University.

**D and F grades:** Any “a-g” courses in which you earn a D or F must be repeated with a grade of C or better in order to count toward the Subject Requirement. Only the second grade will be used in calculating your GPA. If you repeat a course in which you initially earned a grade of C, the second grade will not be used.

## REQUIREMENTS FOR THE CALIFORNIA STATE UNIVERSITIES

The grades you earn in high school are the most important factor in CSU admission decisions. Your high school grade point average is calculated using your grades in all your college prep “a-g” classes completed after the 9th grade.

The California State University (CSU) no longer uses ACT/SAT examinations in determining admissions eligibility for all CSU campuses. If accepted to a CSU campus, ACT or SAT test scores can be used as one of the measures to place students in the proper mathematics and written communication courses. Visit the [CSU Student Success](#) site for further information on course placement. For more information on admission criteria, please visit the [First-Time Freshman Requirements](#) and the [First-Time Freshman Frequently Asked Questions](#) pages.

The CSU requires a minimum 15 unit pattern of courses for admission as a first-time freshman. Each unit is equal to a year of study in a subject area. A grade of C or higher is required for each course you use to meet any subject requirement.

**Required Courses for CSU:**

A. History and Social Science—2 years required

This includes 1 year of U.S. history or 1 semester of U.S history and 1 semester of civics or American government AND 1 year of social science.

B. English—4 years required

4 years of college preparatory English composition and literature.

C. Math—3 years required; 4 years recommended

This includes Algebra I, Geometry, Algebra II, or higher mathematics (take one each year).

D. Laboratory Science—2 years required

This includes 1 biological science and 1 physical science.

E. Language other than English—2 years required

2 years of the same language.

F. Visual and Performing Arts—1 year required

Dance, music, theatre, visual arts or interdisciplinary arts.

G. College preparatory elective—1 year required

Chosen from the University of California “A-G” list.

CSU GPA Calculation: The California State University system uses the same GPA calculation as the University of California.

## ADMISSION POLICIES OF OTHER FOUR YEAR COLLEGES AND UNIVERSITIES

Admission standards vary widely from college to college but the most important factors will be the rigor of the curriculum, grade trends, the grade point average, and in some cases, scores on the SAT or ACT. Additional factors may include a variety of personal qualifications such as character, breadth of interest, participation in co-curricular activities, leadership, and promise of success in college.

## CALIFORNIA COMMUNITY COLLEGES

Any student who has graduated from high school or is eighteen years of age may enroll in a California community college. After completing 60 transferable semester units, a student may transfer to a UC or CSU campus with the standing of a junior. The necessary grade point average required for transfer will vary from campus to campus. Other four-year colleges and universities may allow a student to transfer with fewer than 60 semester units.

# COURSE DESCRIPTIONS

## COUNSELING DEPARTMENT

### **TEACHING AIDE [1402]-First Semester/ [1403]-Second Semester**

(1 semester; 2.5 credits)

Each year there are a limited number of opportunities for students to serve as teacher/laboratory assistants. This is determined at the discretion of the Assistant Principal for Academics. No letter grade is given.

Prerequisite: Approval of instructor and Assistant Principal for Academics and Student Services

### **STUDY HALL**

[1404]-First Semester/ [1405]-Second Semester

(1 semester; 0 credits)

A maximum of one study hall period per semester is permitted.

## ENGLISH DEPARTMENT

### **ENGLISH I [0308]**

(Ninth Grade; 2 semesters)

This course offers an introduction to the various literary genres—short story, novel, drama, and poetry—and to the basic elements of literary analysis. The course emphasizes reading comprehension, essay writing, grammar, vocabulary building, critical analysis of both literature and non-fiction texts, and introduction to research.

### **ENGLISH I HONORS [0358]**

(Ninth Grade; 2 semesters)

Students in English I Honors will cover the course of study described in English I with increased depth, additional texts, and more advanced reading, essay writing, critical analysis, and research skills.

Prerequisites: A high score on Humanities Exam, recommendation of current English teacher, and all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade ELA courses

### **ENGLISH II [0314]**

(Tenth Grade; 2 semesters)

English II offers a survey of British Literature, including various genres and historical contexts. Students will advance their skills in reading comprehension and increase their understanding of literary terms. In composition, students will continue to develop essays with clear ideas supported by textual evidence from primary sources. Additionally, emphasis will be placed on vocabulary building, research and documentation, oral presentation, and discussion.

### **ENGLISH II HONORS [0360]**

(Tenth Grade; 2 semesters)

Students in English II Honors will follow the course of study described for English II in greater depth and with additional texts. Students will advance their skills in critical analysis of literature and non-fiction works to increase their understanding of literary terms and advance their reading comprehension. They will also be required to read additional works and to craft supplemental writing. They will advance their writing skills with in-depth analysis and concise wording as well as advanced research skills.

Prerequisites: For students currently in English I Honors, recommendation of current English instructor and a B/83% or higher. For students in English I, an A/93%, a passing score on the English placement test, and recommendation of current English instructor.

### **ENGLISH III [0326]**

(Eleventh Grade; 2 semesters)

This course offers a basic survey of American literature and a continuation of in-depth literary analysis and research skills. Students will advance their skills in the critical analysis of literature and non-fiction, reading comprehension, and vocabulary building. Emphasis will also be placed on discussion and rhetorical analysis.

### **ENGLISH III HONORS [0366]**

(Eleventh Grade; 2 semesters)

This course offers a basic survey of American literature and a continuation of in-depth literary analysis and research skills. Students will advance their skills in the critical analysis of literature and non-fiction, reading comprehension, and vocabulary building. Emphasis will also be placed on discussion and rhetorical analysis. Students in English III Honors will follow the course of study described for English III in greater depth and with additional texts. Students will advance their skills in critical analysis of literature and non-fiction works to increase their understanding of literary terms and advance their reading comprehension. They will also be required to read additional works and to craft supplemental writing. They will advance their writing skills with in-depth literary and rhetorical analysis as well as their research skills.

Prerequisites: For students currently in English II Honors, a B/83% and teacher recommendation. For students in English II, an A-/90%, passing score on the English placement test, and recommendation of current English instructor.

### **ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION [0362]**

(Eleventh Grade; 2 semesters)

This course covers all aspects of English III, with the addition of more advanced argumentative writing and additional texts. Students study non-fiction as a literary genre, advance their techniques of rhetorical analysis, and practice timed writings in preparation for the AP Language and Composition examination.

Prerequisites: For students currently in English II Honors, an A-/90% or higher, a passing score on the English placement test, and recommendation of current English instructor. For students in English II, an A/93%, a passing score on the English placement test, and recommendation of current English instructor.

Fee: An exam fee will apply.

### **ENGLISH IV [0330]**

(Twelfth Grade; 2 semesters)

This course provides a semester focused on literature featuring female authors and characters. Topics explored include reading literature with a feminist lens, diverse women voices, and female empowerment. An additional semester will study special topics in literature related to a specific author, identity, genre, etc. Across both semesters, vocabulary is elevated and studied in context. Additionally, the course focuses on developing proficiency in the types of writing required in college courses and emphasizing rhetorical and persuasive compositions. Seniors will advance their skills in writing literary, persuasive, and research essays, further develop abilities in critical thinking and in-depth analysis, synthesize material from various sources, and polish their writing styles.

### **ENGLISH IV HONORS [0368]**

(Twelfth Grade; 2 semesters)

This course focuses on women in literature with topics explored including reading literature with a feminist lens, diverse women voices, and female empowerment. The course covers all aspects of English IV, with an additional focus on developing writing skills required for college level work. In addition, students prepare for college level writing through a rigorous and extensive study of poetry and prose analysis. The course includes timed writings in addition to the formal essays required in the English curriculum.

Prerequisites: For students currently in English III Honors, a B/83% and teacher recommendation. For students in English III, an A-/90%, passing score on the English placement test, and recommendation of current English instructor.

### **ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION [0364]**

(Twelfth Grade; 2 semesters)

This course covers all aspects of English IV with an additional focus on developing complex and logically developed arguments backed by evidence and research. In addition, students prepare for the AP literature exam through a rigorous and extensive study of poetry, instruction in style analysis, and an increased emphasis on satire and irony. The course includes frequent timed writings, as well as longer formal essays.

Prerequisites: For students currently in English III AP, recommendation of current English instructor and a B/83% or higher. For students currently in English III Honors, an A-/90% or higher, a passing score on the English placement test, and recommendation of current English instructor. For students in English III, an A/93%, a passing score on the English placement test, and recommendation of current English instructor.

Fee: An exam fee will apply.

### **CREATIVE WRITING I [310]**

(Tenth, Eleventh & Twelfth Grades; 1 semester)

Creative Writing is an introductory course in original creative composition, with instruction on poems, short stories, personal essays, memoirs, scenes, and monologues. The purpose of Creative Writing course is for students to learn skills in writing that extend beyond the systematic structure of literary analysis in the core English classes and to express their creativity in original composition. The course is designed to enhance students' understanding of literary elements, creative thinking and writing skills, and ability for self-expression and voice. To achieve these goals, students will cover poetry, fiction, drama, and creative non-fiction. Students will learn about voice, diction, plotting, setting, and figures of speech. This course satisfies one semester of the UC "g" requirement.

Prerequisites: A B-/80% or higher in English or instructor approval

### **CREATIVE WRITING II [312]**

(Tenth, Eleventh & Twelfth Grades; 1 semester)

Creative Writing II is an advanced course in original creative composition, with instruction on poems, short stories, personal essays, memoirs, scenes, and monologues. The purpose of Advanced Creative Writing course is for students to enhance their skills in writing that extend beyond the basic inclusion of literary devices in original creative composition. Students will complete a higher number of more advanced pieces. The course is designed to enhance students' understanding of literary elements, creative thinking and writing skills, and ability for self-expression and voice. To achieve these goals, students will deepen their studies of poetry, fiction, drama, and creative non-fiction. Students will learn about voice, diction, conflict, setting, and figures of speech. Additionally, they will learn how to effectively manipulate time, voice, and language, as well as what constitutes effective description, dialogue, characterization, and style.

Prerequisites: A B-/80% or higher in English or instructor approval

## **SPEECH AND DEBATE [0306]**

(Tenth, Eleventh & Twelfth Grades; 1 semester)

This course focuses on the process of developing effective oral communication skills. This process includes outlining, researching, listening effectively, participating in discussion, and presenting a variety of speeches. These include informative, persuasive, entertainment, and impromptu speeches. Students will learn how to overcome nervousness and present a positive attitude. This course satisfies one semester of the UC “g” requirement.

Prerequisites: A B-/80% or higher in English or instructor approval

## **MULTI-MEDIA JOURNALISM I [0302]**

(Tenth, Eleventh & Twelfth Grades; 1 semester)

Students in this course will be introduced to all aspects of the journalistic process, including but not limited to, news writing, article critiquing, and investigative reporting. Topics covered include broadcast journalism, podcasting, social media, First Amendment rights, journalistic ethics, types of articles, news-gathering and reporting, headline writing, writing for an audience, understanding bias, current events, investigative reporting, sports reporting, copy editing, production and distribution processes, standard Associated Press (AP) style conventions, persuasive writing, writing for an audience, and understanding of bias and the abundance of fake news. This course satisfies one semester of the UC “g” requirement.

Prerequisites: A B-/80% or higher in English and instructor approval

## **MULTI-MEDIA JOURNALISM II [0304]**

(Tenth, Eleventh & Twelfth Grade; 1 semester)

Students will further their study of all aspects of the journalistic process, including but not limited to, news writing, article critiquing, investigative reporting, and broadcast journalism. Topics covered include First Amendment rights, journalistic ethics, types of articles, news-gathering and reporting, headline writing, writing for an audience, understanding bias, current events, investigative reporting, sports reporting, copy editing, photography, photojournalism, layout design and presentation, production and distribution processes, standard Associated Press (AP) style conventions, persuasive writing, writing for an audience, understanding of bias and the abundance of fake news, and broadcast journalism production. This course satisfies the UC “g” requirement.

Prerequisite: Instructor approval

## **MATHEMATICS & COMPUTER SCIENCE DEPARTMENT**

### **ALGEBRA I [0612]**

(2 semesters)

The aim of this course is to develop an understanding of the real number system, through a study of the properties of real numbers, solutions of linear equations and inequalities, problem solving techniques, graphing on number lines and coordinate planes, factoring, polynomial computation, rational and irrational expressions and an introduction to quadratics. Real life applications are explored throughout the course.

E-book Fee: \$55

### **ALGEBRA I HONORS [0664]**

(2 semesters)

The purpose of this course is to offer a more in-depth study of the concepts covered in the Algebra I course. Real life applications are explored throughout the course.

Prerequisites: A high level of proficiency on the Math Placement Exam, recommendation of current mathematics instructor, and all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade mathematics courses

E-book Fee: \$55

## **GEOMETRY [0614]**

(2 semesters)

This course includes a comprehensive study of plane geometry: congruence and similarity in polygons, a study of area and volume, circles, constructions, and coordinate geometry. The principles of geometry are derived by deductive proof, as well as by inductive discovery activities. Algebraic skills are reviewed and strengthened through geometric problem solving.

Prerequisites: Incoming freshmen must have a B- or higher in Algebra I, show a high level of proficiency in Algebra I on the Math Placement Exam, and recommendation of current mathematics instructor; all other students need a C-/70% or higher in second semester Algebra I

E-book Fee: \$55

## **GEOMETRY HONORS [0666]**

(2 semesters)

The purpose of this course is to offer the traditional concepts of plane geometry from a more theoretical vantage point while maintaining a working understanding of the applications. The topics covered are the same as in the geometry course, though students are given the opportunity to pursue additional possibilities within the spectrum of the course.

Prerequisites: Incoming freshmen must show a high level of proficiency in Algebra I on the Math Placement Exam, all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade mathematics courses, and recommendation of current mathematics instructor; all other students need an A/93% in Algebra I or an A-/90% or higher in Algebra I Honors, both semesters, and recommendation of current mathematics instructor.

E-book Fee: \$55

## **ALGEBRA II [0616]**

(2 semesters)

This course includes a comprehensive review of fundamental algebra, an extension of real numbers to the complex number system, second degree and higher equations, and first degree inequalities. An analysis of functions is provided, extending from the basic definition of a function to polynomial, rational, and exponential. Technology in Algebra will be emphasized with the use of the graphing calculator.

Prerequisites: Incoming freshmen must show proficiency in Algebra I and Geometry on the Math Placement Exam and recommendation of current mathematics instructor; all other students need a C-/70% or higher in both Algebra I and Geometry

E-book Fee: \$55

## **ALGEBRA II/TRIGONOMETRY HONORS [0668]**

(2 semesters)

This course includes a comprehensive review of fundamental algebra, an extension of real numbers to the development of the complex number system, second degree and higher equations and inequalities. An analysis of functions is provided, extending from the basic definition of a function to polynomial, piecewise, rational, logarithmic, exponential, and trigonometric functions. This course includes an intensive study of trigonometric functions, graphs, equations and identities and their applications. Technology in Algebra will be emphasized with the use of the graphing calculator.

Prerequisites: An A /93% in Algebra I and Geometry or an A-/90% or higher in Algebra I Honors and Geometry Honors, advanced proficiency on honors placement exam, and recommendation of current mathematics instructor

## **PRE-CALCULUS [0682]**

(2 semesters)

This course includes a review of Algebra II. Its main emphasis will be advanced algebra topics such as logarithms and function analysis. The course will also provide a thorough discussion of trigonometric functions and their graphs, and trigonometric identities and equations.

Prerequisites: A C/73% or higher in Algebra II and recommendation of current mathematics instructor

## **PROBABILITY & STATISTICS [0678]**

(Twelfth Grade; 2 semesters)

This is an introductory course in the fundamentals of probability theory and statistical methods. Topics include rules for probabilities of single and compound events, conditional probability, data organization, inference procedures for a single - variable (confidence intervals and hypothesis testing), correlation and regression for ordered pair data. Emphasis is placed on the practical application of learned skills. Appropriate technology is used for managing data and conducting tests. This course is recommended for students continuing in mathematics and for those planning a career in science, business, and the social sciences.

Prerequisite: A C-/70% or higher in both semesters of Algebra II, Algebra II/Trigonometry Honors, or Pre-Calculus and recommendation of current mathematics instructor

## **CALCULUS [0672]**

(2 semesters)

This course includes limits, differentiation, integration, logarithmic, exponential and trigonometric functions, inverse functions, and applications of differentiation and integration.

Prerequisites: A C/73% or higher in Algebra II/Trigonometry Honors or Pre-Calculus and recommendation of current mathematics instructor

## **CALCULUS HONORS [0680]**

(2 semesters)

This course includes a brief review of Algebra II and Pre-Calculus concepts, limits, differentiation, integration, logarithmic, exponential, and trigonometric functions, differential equations, and applications of differentiation and integration.

Prerequisites: A B-/80% or higher in Algebra II/Trigonometry Honors or an A-/ 90% or higher in Pre-Calculus and recommendation of current mathematics instructor

## **ADVANCED PLACEMENT CALCULUS AB [0670]**

(2 semesters)

This is a college level course in differential and integral calculus. There will be a review of logarithmic, exponential and trigonometric functions. Topics covered will include limits, differentiation, integration, inverse functions, slope fields, solids of revolution, differential equations, and applications of derivatives and integrals. Graphing calculators will be used regularly and students will be expected to take the AP Calculus AB exam in May for college credit.

Prerequisites: An A-/90% or higher in the current and previous honors mathematics classes or an A/93% or higher in current and previous college prep classes and recommendation of current mathematics instructor.

Fee: An exam fee will apply.

## **ADVANCED PLACEMENT CALCULUS BC [0674]**

(2 semesters)

This course is an extension of the concepts learned in AP Calculus AB. Topics include applications of derivatives and integration, sequences and series, polar coordinates, parametric and vector functions, and

surfaces of revolution. Graphing calculators will be used regularly and students will be expected to take the AP Calculus BC exam in May for college credit.

Prerequisite: A B-/80% or higher in AP Calculus AB and recommendation of current mathematics instructor

Fee: An exam fee will apply.

### **AP STATISTICS [0648]**

(2 semesters)

This course introduces students to the concepts and tools used to collect, organize, analyze, and draw conclusions from data. Students receive instruction in each of the following competencies: exploring data, sampling and experimentation, anticipating patterns with probability and simulation, and statistical inference. Students will learn how to articulate data descriptions, calculations, and conclusions, and to write analytically in context. Students will develop knowledge through experiential activities that challenge them to design and administer studies as well as tabulate and analyze results from surveys and experiments (this will be done using a graphing calculator and/or statistical software). Students will apply a powerful skillset effectively in new and unanticipated situations, explore AP-style free response questions and applications, take AP-style assessments.

Prerequisites: A B/83% or higher in both semesters of the following math classes taken in junior year: Algebra II/Trigonometry Honors, Pre-Calculus, Calculus Honors, AP Calculus AB, or AP Calculus BC and recommendation of current mathematics instructor.

Fee: An exam fee will apply.

### **MULTIVARIABLE CALCULUS & DIFFERENTIAL EQUATIONS [0694; ONE SCHOOLHOUSE]**

(2 semesters)

This year-long course covers a typical college-level Calculus III curriculum, including vectors and vector-valued functions, curves and surfaces in space, partial derivatives and gradients, multiple integration, and line and surface integrals. In the course's final unit, students learn how to identify and solve various kinds of differential equations, including exact first-order equations and second-order homogeneous and nonhomogeneous linear equations, and they practice using such equations to model systems from science and engineering. Built on a foundation of sophisticated problem solving, the course also features 3D visualization and model-building activities that help students develop their geometric intuitions about doing calculus in higher dimensions.

Prerequisites: A C-/70% or higher in AP Calculus BC or equivalent and approval of Assistant Principal for Academics and Student Services

Fee: A \$995.50 course fee will apply.

### **INTRODUCTION TO COMPUTER SCIENCE [ONE SCHOOLHOUSE]**

(2 semesters)

Students are introduced to some of the major areas of computer science as well as develop their programming skills to produce useful solutions and creative artifacts. Throughout the course, students conduct research and investigate current issues and innovations enabled by the application of computer science, such as virtual reality, robotics, cloud computing, cybersecurity, the Internet of Things, and e-commerce. Students learn fundamental computer programming concepts using a simple but powerful block-based programming language to implement methods, functions, parameters, arguments, if-else statements, and loops in a creative and animated environment. Students then explore web design and web applications using HTML, CSS & JavaScript, and end with P5js to create interactive art with coding. This course prepares students for all other One Schoolhouse computer science courses. Please note: This course cannot be completed without a computer running a Windows or Macintosh operating system.

Prerequisite: Approval of the Assistant Principal for Academics and Student Services

Fee: A \$995.50 course fee will apply.

## **AP COMPUTER SCIENCE A [0688; ONE SCHOOLHOUSE]**

(2 semesters)

The AP Computer Science A course introduces the key concepts of programming in Java. The analytical, critical-thinking, and problem-solving skills that students develop in this course transfer to programming in other languages as well. This course is designed with the idea that programming should be fun, engaging, and intuitive. Students will learn to apply the main principles of object-oriented software design and programming using classes and objects, constructors, methods, instance and static variables, inheritance, class hierarchies, and polymorphism. Students work creatively and collaboratively with their classmates to discuss ethical and social issues relating to the use of technology and develop a solid foundation from which to launch into a wide range of computer science areas. This course prepares students for the AP Computer Science A Exam in May.

Please note: this course cannot be completed without a computer running a Windows or Macintosh operating system. Chromebooks, iPads, smartphones, and tablets are not adequate.

Prerequisites: Successful completion of a One Schoolhouse computer science course or permission from the One Schoolhouse administration and approval of the Assistant Principal for Academics and Student Services  
Fee: A \$995.50 course fee and an additional exam fee will apply.

## **AP COMPUTER SCIENCE PRINCIPLES [0690; ONE SCHOOLHOUSE]**

(2 semesters)

This course investigates the “big ideas” found in our digital world. Using the Python programming language, students develop and demonstrate fundamental concepts of computer programming that can be applied across a variety of projects and languages. Students explore different means of representing information digitally and how our digital world has evolved. They create computer programs to solve authentic problems or for personal interest, such as unique musical pieces, math calculators, and data summations. Students discuss the current state of technology and its role in our everyday lives, discerning the positive and negative influences of innovations concerning computer and network technologies to society, culture, and economics. Throughout, students develop their skills in computational thinking, logical reasoning, and describing processes through algorithms and abstraction. Finally, students demonstrate their learning by creating a portfolio for submission to the College Board and are prepared for the AP Computer Science Principles Exam in May.

Please note: this course cannot be completed without a computer running a Windows or Macintosh operating system. Chromebooks, iPads, smartphones, and tablets are not adequate.

Prerequisite: Approval of the Assistant Principal for Academics and Student Services  
Fee: A \$995.50 course fee and an additional exam fee will apply.

## **MODERN LANGUAGE DEPARTMENT**

### **SPANISH I [0408]**

(2 semesters)

This course is designed with an emphasis on communication. The class is conducted as much as possible in Spanish. Reading and writing are introduced. Basic grammatical structures, conversational vocabulary, and cultural units focusing on Spanish-America and Spain are presented.

### **SPANISH I HONORS [0460]**

(2 semesters)

Students in Spanish I Honors will follow the course of study described for Spanish I with additional emphasis on conversation, writing, and grammatical structures.

Prerequisites: A high score on the Humanities Exam, recommendation of current English instructor, and all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade ELA courses

### **SPANISH II [0410]**

(2 semesters)

This course is a continuation of the basic concepts introduced in Spanish I. With the emphasis on communication, the class is conducted primarily in Spanish. Intermediate grammatical structures, extensive vocabulary, and cultural units focusing on Latin America and Spain are presented.

Prerequisite: Incoming freshmen must have a B- or higher in Spanish I and/or pass the Modern Language Proficiency exam; all other students must have a C-/70% or higher in Spanish I

### **SPANISH II HONORS [0462]**

(2 semesters)

Students in Spanish II Honors will follow the course of study described for Spanish II with additional emphasis on conversation, listening, writing, and grammatical structures.

Prerequisites: Incoming freshmen must have a high score on the Humanities Exam and a passing score on the Modern Language Proficiency Exam; recommendation of current English instructor; all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade ELA courses; all other students must have a B/83% or higher in Spanish I Honors or an A/93% in Spanish I and recommendation of current language instructor

### **SPANISH III [0412]**

(2 semesters)

This course is conducted primarily in Spanish with an emphasis on conversational skills. Listening and reading comprehension are stressed. Writing skills are further developed. Advanced grammatical structures and extensive vocabulary are presented along with cultural, historical and geographical units on Latin America and Spain.

Prerequisites: A C-/70% or higher in Spanish II and recommendation of current language instructor

### **SPANISH III HONORS [0464]**

(2 semesters)

This course follows the same outline as Spanish III but with more extensive use of Spanish in the classroom, greater emphasis on written composition work, and greater stress on listening and reading comprehension. Students may complete a short novel.

Prerequisites: A B/83% or higher in Spanish II Honors or an A/93% in Spanish II and recommendation of the current language instructor

### **SPANISH IV [0414]**

(2 semesters)

This is a course in advanced Spanish. Spanish structure is reviewed and new structures are studied with emphasis on mastery exercises on the fine points of Spanish grammar. Focus is placed upon the practical application of the language to everyday life. This course includes oral and cultural presentations, writing, reading, and listening comprehension skills.

Prerequisites: A B-/80% or higher in Spanish III Honors or a B/83% in Spanish III and recommendation of the current language instructor

## **ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE [0466]**

(2 semesters)

The advanced placement course is designed to prepare students for the Advanced Placement Test in Spanish Language and Culture. Students use an AP workbook to practice the various skills necessary to pass the test. This course also includes extensive vocabulary building, reading and listening comprehension skills. There is also a greater emphasis on writing competency. The course is conducted primarily in Spanish.

Prerequisites: A B+/87% or higher in Spanish III Honors and recommendation of the current language instructor

Fee: An exam fee will apply.

## **ADVANCED PLACEMENT SPANISH LITERATURE AND CULTURE [0490]**

(2 semesters)

This course is designed for native speakers or students with extensive preparation in Spanish. Students read selections of prose, poetry, and drama written in Spanish by authors from the sixteenth through the twentieth centuries. Students study the art of literary analysis and work to improve their essay-writing skills in preparation for the Advanced Placement Spanish Literature and Culture Examination. The course is conducted primarily in Spanish.

Prerequisites: A B+/87% or higher in Spanish III Honors and recommendation of the current language instructor

Fee: An exam fee will apply.

## **FRENCH I [0430]**

(2 semesters)

This course is an introduction to the study of the French language. Class work is primarily in French except for grammar instruction. Reading and writing are introduced. Basic grammatical structures, conversational vocabulary, and cultural units focusing on France and other French-speaking regions are all presented.

## **FRENCH I HONORS [0488]**

(2 semesters)

Students in French I Honors will follow the course of study described for French I with more extensive requirements in the areas of oral participation, listening, writing, and grammatical structures.

Prerequisites: A high score on the Humanities Exam, recommendation of current English instructor and all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade ELA courses

## **FRENCH II [0432]**

(2 semesters)

This course is a continuation of the basic concepts of French I. Intermediate grammatical structures, extensive vocabulary, and units examining various aspects of Francophone culture around the world are presented. Continued emphasis on reading and writing are part of this course. Students are introduced to literature with a short novel.

Prerequisites: Incoming freshmen must have a B- or higher in French I and /or pass the language proficiency placement exam; all other students must have a C-/70% or higher in French I

## **FRENCH II HONORS [0478]**

(2 semesters)

Students in French II Honors will follow the course of study described for French II with more extensive requirements in the areas of oral participation, listening, writing, and grammatical structures.

Prerequisites: Incoming freshmen must have a high score on the Humanities Exam and a passing score on the Modern Language Proficiency Exam, recommendation of current English instructor and all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> ELA courses; all other students must have a B/83% or higher in French I Honors or an A/93% in French I and recommendation of current language instructor

### **FRENCH III [0434]**

(2 semesters)

With an emphasis on conversational skills, this course is conducted primarily in French. Advanced grammatical structures and extensive vocabulary are presented along with cultural units on Francophone countries around the world. Greater stress is given to written composition work, reading and listening comprehension.

Prerequisites: A C-/70% or higher in French II and recommendation of the current language instructor

### **FRENCH III HONORS [0480]**

(2 semesters)

Students in French III Honors will follow the course of study described for French III with more extensive requirements in the areas of oral participation, listening, writing, and grammatical structures. This course is also designed to introduce students to the structures of the AP exam.

Prerequisites: At least a B/83% in French II Honors or an A/93% in French II and recommendation of the current language instructor

### **FRENCH IV [0436]**

(2 semesters)

This is a course in advanced French. With an emphasis on conversational and presentational skills, this course is conducted primarily in French. Students are introduced to the works of modern French and francophone authors in short selections and a novel. Students study grammar, topical vocabulary, and culture of Francophone countries around the world.

Prerequisites: A B-/80% or higher in French III Honors or a B/83% or higher in French III and recommendation of the current language instructor

### **ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE [0482]**

(2 semesters)

This advanced placement course follows the prescribed AP French Language and Culture curriculum, which is designed to be the equivalent of a college-level course for students in their third and fourth year of French. This course prepares students for the AP French Language and Culture exam. The three methods of communication that are foundational to this course are: interpersonal, interpretive, and presentational. This course includes extensive vocabulary building, reading, speaking and listening comprehension skills. There is a great emphasis on writing and oral competency. Students will also explore the different cultures of the Francophone countries around the world. This course is conducted in French and students are expected to take the AP French Language and Culture exam at the end of this course.

Prerequisites: At B+/87% or higher in French III Honors and recommendation of the current language instructor

Fee: An exam fee will apply.

## **PERFORMING ARTS DEPARTMENT**

### **CREATIVE DANCE IA [0734]**

(1 semester)

This class will strive to inspire through the discipline of dance by teaching basic techniques of ballet and jazz and possibly some tap. Students will learn different styles of choreography, as well as be encouraged to express

themselves within each style. They will build strength and technique while improving limberness, agility, grace and creativity. Students may have a chance to apply what they have learned by creating a dance of their own. Public performance is required in the Christmas Concert as part of the class. There may be occasions to observe professional performances that could incur a ticket/transportation fee. Proper dance attire is required. With Creative Dance IB, this course satisfies the California State University and University of California VPA requirement. \*This course can be counted as one semester of physical education if it is not used towards fulfillment of the VPA requirement.

### **CREATIVE DANCE IB [0736]**

(1 semester)

This class is the next level to Creative Dance IA. The student must show a greater level of coordination, flexibility and strength. They will be expected to learn choreography more quickly and will learn more distinct styles of musical numbers. Public performance is required for the Dance Concert as part of the class. There may be occasions to observe professional performances that could incur a ticket/transportation fee. Proper dance attire is required. With Creative Dance IA, this course satisfies the California State University and University of California VPA requirement. \*This course can be counted as one semester of physical education if it is not used towards fulfillment of the VPA requirement. Concert production may require provision of own performance costume.

Prerequisite: Creative Dance IA or Instructor approval

### **CREATIVE DANCE IIA [0748]**

(1 semester)

This class is a more advanced version of Creative Dance IA and IB. Students are expected to be more responsible for retaining and creating choreography. Students will also explore more styles and better technique. Auditions are required and performances are mandatory. Proper dance attire is required. This course satisfies the California State University and University of California VPA requirement. \*This course can be counted as one semester of physical education if it is not used towards fulfillment of the VPA requirement.

Prerequisite: Audition

### **CREATIVE DANCE IIB [0750]**

(1 semester)

This class is a more advanced version of Creative Dance IB. Students are expected to be more responsible for retaining and creating choreography. Students will also explore more styles and better technique. Performances are mandatory. Proper dance attire is required. This course satisfies the California State University and University of California VPA requirement. \*This course can be counted as one semester of physical education if it is not used towards fulfillment of the VPA requirement.

Concert production may require provision of own performance costume. Students may be asked to purchase additional performance attire.

Prerequisite: Creative Dance IIA or Instructor approval

### **CONCERT DANCERS [0710]**

(2 semesters)

This class will strive to inspire through the discipline of dance by solidifying basic to advanced techniques of ballet, jazz, musical theatre and possibly some tap. Students will learn different styles of choreography, as well as be encouraged to express themselves within each style. They will build strength and agility while improving

technique and grace. They will be expected to be able to apply what they have learned to a dance of their own. Concert Dancers are required to perform. There may be after-school rehearsals closer to performance time. Auditions are required for enrollment, and a student may be admitted to the class upon approval with a “probation status” (i.e. she shows some promise and can keep up adequately for public performance). There may be occasions to observe professional performances that could incur a ticket/transportation fee. Proper dance attire is required. This course satisfies the California State University and University of California VPA requirement. \*This course can fulfill the physical education requirement if it is not used towards fulfillment of the VPA requirement. Concert production may require provision of own performance costume(s).

Prerequisite: Audition

### **DRAMA IA [0738]**

(1 semester)

This course is an introduction to the art of theatre and acting. Study will include brief history of theatre and the fundamentals of acting. Students will participate in exercises designed to develop clear focus and understanding of fundamental performance skills. Concentration, listening, speech, movement, creativity, ensemble cooperation and various performance technique skills will be developed utilizing various physical and mental improvisation exercises. Public performance is possible. There may also be occasions to observe professional performances, which will incur a ticket/transportation fee. A letter grade will be given. With Drama IB, this course satisfies the California State University and University of California VPA requirement.

### **DRAMA IB [0740]**

(1 semester)

This course is continued exploration of the necessary fundamental techniques of acting and performance production. Monologue work and beginning scene study will be focused activities in addition to the continued building of skills acquired in Drama IA. As in Drama IA, there may be opportunity for public performance and occasions to observe professional performances or workshops, which may require an additional ticket/transportation fee. A letter grade will be given. With Drama IA, this course satisfies the California State University and University of California VPA requirement.

Prerequisite: Drama IA

### **DRAMA II [0742]**

(2 semesters)

This course focuses on further practice and application of skills developed in Drama IA and IB. Students will study character development and interpretation, advanced scene study, advanced acting styles and performance skills. In the second semester, individual or group projects will be decided, highlighting the best learning opportunity for each individual or student group. These projects may include small performances, directing projects, performance of self-generated material or other published materials as agreed on by the instructor. There may be opportunity for public performance and opportunities to observe professional performances, which will incur an additional ticket/transportation fee. A letter grade will be given. This course satisfies the California State University and University of California VPA requirement.

Prerequisite: Audition and/or instructor approval

### **MUSICAL/PLAY PRODUCTION [0719]**

(1 semester)

Participation in the annual Fall Play/Spring musical or play is required. Credit is given to leads, chorus, ensemble, stage-managing and technical crew. Registration is automatic at the time of audition. This course is credit/no credit.

Prerequisite: Audition and/or instructor approval

Fee: \$125 Fall Drama; \$200 Spring Musical

### **TECHNICAL THEATER CRAFT [0758]**

(1 semester)

This course gives students the opportunity to participate in all aspects of theater production, utilizing a hands-on approach to set design, lighting design, running crew, art and creative event planning. The students in this course assist in all Louisville productions and events participating as the technical support team for all Louisville theatrical activities. This course meets after school. This course is credit/no credit

### **CHORUS I [0732]**

(2 semesters)

The purpose of the singing ensemble is the study of music history and theory; and the rehearsal, and performance of choral works of various genres suitable for a novice-singing group.

Participation in pertinent performances is mandatory, as is attendance at after-school rehearsals. There will be occasions to observe professional performances, which may incur a ticket/transportation fee. A letter grade will be given. This course satisfies the California State University and University of California VPA requirement. Concert production will require provision of own skirt and blouse.

### **CHORUS II [0724]**

(2 semesters)

This one-year high-profile class is designed for the singing performer. The purpose of this singing ensemble is the study, rehearsal, and performance of choral works of various genres. In addition to performing in concerts and various on-campus events, Ensemble Royale will act as Louisville's Good-will ambassadors and participate in other out-of-school functions. A letter grade will be given. This course satisfies the California State University and University of California VPA requirement.

Concert production will require provision of own performance costume(s).

Prerequisites: Audition and/or instructor approval

### **MUSICAL THEATRE PERFORMANCE [0726]**

(Ninth, Tenth, Eleventh and Twelfth Grade; 2 semesters)

This class will develop individual performance skills in areas including vocal technique, confidence, focus, emotional connection to material, and performance-level stakes/energy. This course satisfies the California State University and University of California VPA requirement.

Prerequisites: Audition and/or instructor approval

### **AP MUSIC THEORY [0752]**

(2 semesters)

AP® Music Theory is an intensive, fast-paced course which aims to increase students' overall musicianship and prepare them for the Advanced Placement exam. Students will begin to look at music on a deeper level and relate theory to their personal instrument, experiencing growth in performance and technicality. There are both aural and analytical components to the class: students will learn to sight-sing, analyze a variety of genres, and strengthen their ear. Students will have the chance to compose and perform original compositions as well as explore different fields of the music world. AP Music Theory starts with the basics (clef reading, scales, and chords) and continues all the way up to a college level theory course (harmonic and form analysis, modulation). This is a crucial course for anyone looking to pursue music professionally or for anyone who wants to pursue their passion in music. AP Music Theory students often pass out of entry-level theory classes in college and use this course to help them on theory entrance exams. This course satisfies the UC "f" requirement.

Prerequisite: Instructor approval

# PHYSICAL EDUCATION DEPARTMENT

\*One of the two required semesters of physical education must be fulfilled on campus through completion of one of the following courses or a dance class offered in the Performing Arts Department, provided it is not used towards fulfillment of the Visual and Performing Arts requirement. All PE courses receive a letter grade.

## **POWER WALKING FOR FITNESS [0802]**

(1 semester)

Power walking, an aerobic conditioning activity, is a safe and effective cardiorespiratory exercise for those who desire a low intensity exercise program. Special emphasis is placed on proper walking mechanics, flexibility training, and the benefits of walking intensity and duration necessary to achieve cardiorespiratory fitness.

## **STRENGTH CONDITIONING [0800]**

(1 semester)

A course designed to place emphasis on total body conditioning through a balanced exercise program.

## **TENNIS [0804]**

(1 semester)

This course is designed for the beginner or inexperienced player. Emphasis is placed on fundamental stroke execution, rules, etiquette, and game strategies. The more advanced student will develop a higher proficiency in performance of tennis skills and a better understanding of advanced strategies.

## **VOLLEYBALL [0807]**

(1 semester)

This course is designed to provide instruction and practice from introductory to advance performance techniques in volleyball, with emphasis on individual skills, team strategies, effective communication and conditioning.

## **PILATES/YOGA [0810]**

(1 semester)

This course is designed to introduce the techniques and movements of pilates and yoga. The course emphasizes routines that align the body and mind, build strength, stamina, flexibility, and develop core abdominal strength.

## **INTERSCHOLASTIC ATHLETICS**

No more than one of the two required semesters of physical education can be fulfilled by interscholastic athletic participation. Interscholastic athletic participation does not earn a letter grade.

BASKETBALL (Winter)

BEACH VOLLEYBALL (Spring)

CROSS COUNTRY (Fall)

EQUESTRIAN\*\*\*

FLAG FOOTBALL (Fall)

GOLF (Fall)

SOCCER (Winter)

SOFTBALL (Spring)

SWIMMING (Spring)

TENNIS (Fall)

TRACK AND FIELD (Spring)

VOLLEYBALL (Fall)

WATER POLO (Winter)

Athletics: This is a sport-specific session that focuses on techniques, strategies and training designed for in-season and or pre-season intercollegiate athletes at Louisville High School. These sessions are mandatory for all varsity and junior varsity athletes not in a current season of a sport. Interscholastic athletics involves after school athletic conditioning and interscholastic competition in the above listed areas. Credit/no credit will be given.

\*\*\*Equestrian does not involve the aforementioned athletic conditioning held on campus as it is expected that each rider is engaged in training and practice off-campus and outside of school hours. In order to receive PE credit for participation in equestrian, the proper paperwork noting fulfillment of requirements must be maintained with the Athletic Department.

Prerequisite: CIF eligibility and selected for team

Fee: Transportation/Sport \$450

## **HEALTH [0812]**

(1 semester)

This semester course fulfills the state-mandated health requirement. The course is designed to cover health issues from a Catholic perspective. The Catholic perspective is one that respects all of life, considering life to be sacred. This viewpoint allows the student to see herself as having dignity and worth, enabling her to make healthy life affirming choices. The course covers a wide range of topics including: nutrition and physical activity; growth, development, and sexual health; injury prevention and safety; alcohol, tobacco, and other drugs; mental, emotional and social health; and personal and community health. This course does not fulfill the Physical Education requirement; it does fulfill the Health requirement.

## **SCIENCE DEPARTMENT**

Two years of laboratory science (one year of Biology and one year of Chemistry) are required for Louisville graduation. Three or more years of laboratory science (at least one year of Physics) are recommended. All Honors and AP Science courses have a requirement that students must maintain a "C-" or better to continue to the second semester of the course.

### **BIOLOGY [1014]**

(Ninth Grade; 2 semesters)

By using scientific processes, students learn how all living things depend on each other through various webs of relationships. This course focuses on the general concepts for the following topics: scientific methodology, ecology, cell biology, genetics, molecular biology, and evolution. Lab investigations are an important part of this course, and graphing, critical thinking, and computer skills are strongly emphasized.

### **BIOLOGY HONORS [1066]**

(Ninth Grade; 2 semesters)

The honors biology course includes an in-depth study of living things and how they function. This course goes into great detail on the following topics: scientific methodology, ecology, biodiversity, cell biology, biochemistry, genetics, genetic technology, molecular biology, and evolution. Advanced lab techniques are introduced and graphing, critical thinking, and computer skills are strongly emphasized. A research project will be completed as part of this course.

Prerequisites: A high score on the Humanities Exam, recommendation of 8<sup>th</sup> grade teacher and all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade science courses

## **ADVANCED PLACEMENT BIOLOGY [1068]**

(Eleventh & Twelfth Grades; 2 semesters)

This course is designed to introduce the student to college level biology. Lectures, laboratories, research projects, demonstrations, and tests are structured both in content and time allotment to specifically prepare the student to pass the Advanced Placement examination in May. The course stresses a high level of biology and chemistry, including cell biology, genetics, ecology, evolution, microbiology, developmental biology, physiology and biotechnology. Students will be offered the opportunity to develop the ability to research biological topics and perform laboratory experiments.

Requirement: The student must be willing to occasionally attend classes after regular school hours and on Saturdays at the option of the teacher.

Prerequisites: A B/83% or higher in each semester of Chemistry Honors and Biology Honors or an A/93% or higher in each semester of Chemistry and Biology, a minimum grade of a B/83% or higher in all semesters of honors mathematics courses or an A/93% in both semesters of Algebra II, and recommendations of current science and mathematics instructors.

Fee: An exam fee will apply.

## **CHEMISTRY [1020]**

(Tenth Grade; 2 semesters)

This course provides both an experimental as well as a theoretical approach to the study of matter and change with emphasis on atomic structure, periodicity of the elements, chemical bonding, types of chemical reactions, study of states of matter and solutions, gas laws, energy and chemical changes, chemical equilibrium, acids and bases, rates of a reaction and electrochemistry. An introduction to organic chemistry and nuclear chemistry will be given. Applications of chemistry to everyday processes are emphasized. Student labs, projects, problem-solving, critical thinking skills, graphing, interpreting graphs, and cooperative learning activities are stressed.

Prerequisite: Passing grade in Biology

## **CHEMISTRY HONORS [1088]**

(Tenth Grade; 2 semesters)

This course includes an in-depth study of matter and change. The topics include atomic structure and bonding with an emphasis on molecular structure and the effect this has on properties of materials. Energy changes, reaction rates and chemical equilibrium of chemical reactions are considered with a focus on the quantitative as well as qualitative aspects of chemical systems. Nuclear chemistry, electrochemistry, chemistry of life and chemistry of the environment will also be studied. Course development is based on experimental interpretations and complex problem solving and critical thinking. Students may be required to investigate particular chemical phenomena in-depth by designing and conducting experiments to test hypotheses. Collaboration with other students in the learning environment and communication of experimental results is considered essential to the learning process.

Prerequisites: A B+/87% or higher in both semesters of Biology Honors or an A/93% in Biology, A B+/87% or higher in both semester of honors mathematics or an A/93% in both semesters of college preparatory mathematics and recommendations of current science and mathematics teachers.

## **ADVANCED PLACEMENT CHEMISTRY [1074]**

(Eleventh & Twelfth Grades; 2 semesters)

This course follows the prescribed AP Chemistry curriculum, which is an in-depth approach to college freshman chemistry. The student is prepared to take the AP Chemistry examination in May. Successful performance on this test may result in one semester or a full year of college credit in chemistry. A standard college freshman chemistry text is used. Laboratory work is an important part of this course. Consequently, the

student may be required to occasionally attend extended laboratory hours or test review sessions either before/after school or on Saturday at the option of the teacher.

Prerequisites: A B+/87% or higher in both semesters of Chemistry Honors or an A/93% or higher in Chemistry, a B+/87% or higher in all semester of honors mathematics courses or an A/93% in all semesters of college preparatory mathematics courses and recommendations of current science and mathematics instructors.

Fee: An exam fee will apply.

### **PHYSICS [1018]**

(Eleventh & Twelfth Grades; 2 semesters)

Physics introduces students to the basic concepts of physical science in the areas of mechanics, dynamics, energy, heat, light, sound, electricity and magnetism. The approach is one which integrates lecture-discussion with experimentation and analysis. Critical thinking and problem-solving skills are also emphasized so a strong foundation in mathematics is required.

Prerequisites: A grade of B-/80% or higher in all semesters of Biology and Chemistry or a C/73% or higher in Biology Honors and Chemistry Honors.

### **PHYSICS HONORS [1072]**

(Eleventh & Twelfth Grades; 2 semesters)

Honors Physics covers the same concepts as regular Physics but with a more mathematical approach. Problem solving will require both a conceptual understanding of the material plus intensive algebraic, trigonometric and graphical analysis. Some basic calculus concepts will also be introduced.

Prerequisites: A grade of A/93% in all semesters of Biology and Chemistry or a B/83% or higher in Biology Honors and Chemistry Honors, a grade of at least B/83% in Algebra 1H or A-/90% in Algebra 1CP.

### **ADVANCED PLACEMENT PHYSICS 1 [1077]**

(Eleventh & Twelfth Grades; 2 semesters)

This course is designed to introduce the student to college level physics in order to prepare for passing the Advanced Placement exam. The student will have the opportunity to become proficient in applying mathematics and the scientific method to physics concepts. This will enable the student to learn to solve practical and theoretical problems through inquiry-based learning. Students will develop scientific critical thinking and reasoning skills. Topics covered will include: mechanics (kinematics, Newton's laws, conservation of energy, conservation of momentum, power, rotational motion, gravitation), oscillations, and fluids.

Prerequisites: An A/93% or higher (B/83% or higher for honors) in previous math and Physics classes, concurrent enrollment in Pre-Calculus or higher and recommendations of current science and mathematics instructors.

Fee: An AP exam fee will apply.

### **ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE [1098]**

(Eleventh & Twelfth Grades; 2 semesters)

This course follows the prescribed AP Environmental Science curriculum, which is designed to be the equivalent of a lab-based, one semester college course in Environmental Science. Environmental Science is highly interdisciplinary; it connects the physical and life sciences with mathematics, history, ethics, law, and economics. This course discusses the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems, and to examine solutions for solving them. Students earning a "3" or higher on the exam in May are typically given college credit for a one-semester environmental science course in college or alternatively may be given credit for an elective science course at the college's discretion.

Prerequisite: An A-/90% or higher in Biology and Chemistry or a B+/87% or higher in both semesters of Biology Honors and Chemistry Honors, and recommendation of current math and science instructors.

Fee: An exam fee will apply.

### **ENVIRONMENTAL SCIENCE [1016]**

(Eleventh & Twelfth Grade; 2 semesters)

Environmental Science is highly interdisciplinary; it connects the physical and life sciences with history, ethics, law, and economics. This course discusses the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving or preventing them. Emphasis will be placed on student projects and laboratory experiments.

Prerequisite: A passing grade in Biology and Chemistry.

### **ANATOMY/PHYSIOLOGY [1084]**

(Eleventh & Twelfth Grade; 2 semesters)

Anatomy and Physiology is a comprehensive course that introduces students to the structure and functions of the systems that comprise the human body, as well as the interactions, and health issues that occur between the systems. This course offers laboratory experiences for students who might be interested in career paths concentrating in nursing, physical therapy, dental hygiene, pharmacology, respiratory therapy and health education. Students experience the enjoyment of learning about the human body through mandatory dissections, viewing specimens, and microscopic/macrosopic tissue study. This course satisfies the UC “d” requirement, which gives the student an additional year of a lab-based science course.

Prerequisite: A passing grade in Biology and Chemistry.

### **FORENSIC SCIENCE [ONE SCHOOLHOUSE]**

(Eleventh & Twelfth Grade; 2 semesters)

Forensic Science examines the application of science to the criminal and civil laws enforced by the criminal justice system. Students explore the science of criminology by using a combination of science disciplines. As students learn to differentiate between actual techniques and some of those portrayed on popular television shows, they evaluate current procedures used by real crime labs to understand some of the limitations of the law, police, and forensics science. Students examine scientific techniques behind the analysis of physical and eyewitness evidence, toxicology, DNA fingerprinting, fire and explosives, bones, handwriting and document analysis, and other relevant pieces of evidence. Throughout the course, students investigate simulated crime and accident scenes, collect and analyze evidence, and develop observation skills and deductive reasoning. The course includes a study of the variety of careers in forensic science. This exploration is completed through a mixture of laboratory exercises, class discussions and projects, online simulations and games, and analysis of representation of forensic science in the media.

Prerequisite: Successful completion of one year of high school level science or permission of instructor and approval of Assistant Principal for Academics and Student Services

Fee: A \$995.50 course fee will apply.

### **NEUROSCIENCE [ONE SCHOOLHOUSE]**

(Eleventh & Twelfth Grade; 2 semesters)

In this project-based course, students learn the structure of the brain and how the brain senses, thinks, behaves, and creates memories for learning and language. They explore brain diseases, disorders, imaging techniques

and treatments, as well as how the environment impacts the brain. Armed with this solid foundation in neuroscience, students spend the second semester learning to think like doctors. Students engage in group and individual research projects and seminar-style problem solving which will help to develop the ability to find answers to questions that may not be addressed specifically in the course. They review actual cases in the neuroscience field and follow the doctrine of ethical analysis with patients. Students are guided through a self-designed, long-term research project. This course is designed for students who are considering college majors in a medical or health related field; by the end of it, students will have basic knowledge of Neuroscience.

Prerequisite: Successful completion of one year of high school level science or permission of instructor and approval of Assistant Principal for Academics and Student Services

Fee: A \$995.50 course fee will apply.

## **SPORTS MEDICINE**

(Eleventh & 12th Grade; 2 semesters)

This course will provide a foundational overview of sports medicine, exploring the multidisciplinary approaches used in the prevention, recognition, evaluation, management, and rehabilitation of injuries and illnesses related to physical activity and sports participation. An introductory course for sports medicine is crucial in providing fundamental knowledge for students who are interested in pursuing a variety of healthcare and sports-related careers. Students will have the opportunity to learn practical, life-saving skills in emergency care that are applicable to the general population. This course will challenge students to think critically and develop the strong diagnostic and problem-solving skills needed to provide appropriate care under pressure. Students will also learn the importance of teamwork and interprofessional communication, which is essential in any professional setting. This elective course will strongly support students in the Medicine and Health Sciences Focus Program.

Prerequisites: A passing grade in Biology and Chemistry.

## **SOCIAL SCIENCE DEPARTMENT**

### **WORLD HISTORY AND GEOGRAPHY [1116]**

(Ninth & Tenth Grades; 2 semesters)

This is a year-long course encompassing the entirety of World History and Geography from the Prehistoric Era through the Renaissance, Reformation, and Age of Exploration. Topics include the study and analysis of ancient civilizations, such as Mesopotamia, Egypt, Greece, and Rome, as well as early modern Europe. The histories of non-Western civilizations, including their contributions to art, science, literature, and philosophy, as well as interactions between them and the West, are emphasized as well.

### **WORLD HISTORY AND GEOGRAPHY HONORS [1160]**

(Ninth & Tenth Grades; 2 semesters)

This is a year-long course encompassing the entirety of World History and Geography from the Prehistoric Era through the Renaissance, Reformation, and Age of Exploration. Topics include the study and analysis of ancient civilizations, such as Mesopotamia, Egypt, Greece, and Rome, as well as early modern Europe. The histories of non-Western civilizations, including their contributions to art, science, literature, and philosophy, as well as interactions between them and the West, are emphasized as well.

This course places a special emphasis on writing and the use of primary source documents, as well as historical thinking skills such as contextualization, cause and effect, and change v. continuity, as conceptual frameworks meant to foster a deeper understanding of the past and its relationship to issues that affect us today.

Prerequisites: A high score on the Humanities Exam, recommendation of current English instructor and all A's/A-'s in 7<sup>th</sup> & 8<sup>th</sup> grade ELA courses

## **ADVANCED PLACEMENT WORLD HISTORY: MODERN [1172]**

(Tenth Grade; two semesters)

This is a yearlong course in which students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

Prerequisite: A passing grade in World History and Geography, writing sample, recommendation of current social science instructor and approval of AP World instructor

## **THE MODERN WORLD [1120]**

(Tenth Grade; 2 semesters)

This year-long course is an in-depth study of World History and Geography from the Age of Exploration to the present. Topics include the rise of Pre-Columbian Civilizations, the rise of Absolutism in Europe, Consequence of Industrialization, European colonization of subject peoples (as well as the anti-imperialist struggles of those peoples), the Russian and Chinese Revolutions, World War I, the rise of fascism, World War II, and the Cold War. The histories of non-Western civilizations, including their contributions to art, science, literature, and philosophy, are points of emphasis as well. The class also places emphasis on contemporary global challenges such as the effects of industrialization on climate, increasing global economic inequality, and the subjugation of peoples based on race, religion, and gender.

Prerequisite: A passing grade in World History and Geography or World History and Geography Honors

## **UNITED STATES HISTORY [1118]**

(Eleventh Grade; 2 semesters)

This is a year-long course encompassing the entirety of United States History from the period of European colonization of the Americas to the present. Topics include the American Revolution, the rise of American nationalism, the birth of the national market economy, America's "original sin" of slavery, the subjugation of Native Americans, the Civil War and Reconstruction, industrialization, American imperialism, international relations, and 20th Century economic, political, and social, reform movements, with special emphasis on Americans of color and women.

## **ADVANCED PLACEMENT UNITED STATES HISTORY [1164]**

(Eleventh Grade; 2 semesters)

This is a year-long course encompassing the entirety of United States History from the period of European colonization of the Americas to the present. Topics include the American Revolution, the rise of American nationalism, the birth of the national market economy, America's "original sin" of slavery, the subjugation of Native Americans, the Civil War and Reconstruction, industrialization, American imperialism, international relations, and 20th Century economic, political, and social, reform movements, with special emphasis on Americans of color and women. This course places a special emphasis on writing and the use of primary source documents, as well as historical thinking skills such as contextualization, cause and effect, change v. continuity, and conflict v. consensus, as conceptual frameworks meant to foster a deeper understanding of the American story.

Prerequisites: Writing sample, recommendation of current social science instructor, and approval of AP US History instructor

Fee: An exam fee will apply.

## **UNITED STATES GOVERNMENT & POLITICS [1104]**

(Twelfth Grade; 1 semester)

This is a one-semester course encompassing the entirety of United States government and politics. Topics include the nature of federalism and republican government, separation of powers and checks and balances between legislative, executive, and judicial branches, as well as civil liberties and rights as enshrined in the Constitution and as interpreted by the Supreme Court over time. The course also focuses on contemporary politics as made manifest in voting patterns, campaigns, political parties, ideologies, interest groups, and the media. The course also emphasizes Socratic discussion and debate of long-standing political inequities, and how best to remedy those inequities.

## **ECONOMICS [1106]**

(Twelfth Grade, 1 semester)

This is a one-semester course that encompasses both microeconomic and macroeconomic concepts. Major issues to be addressed include the origins of capitalist thought, how markets work, supply and demand, how individual businesses make economic choices, labor in a free market economy, social welfare policy, the federal budget, unemployment and inflation, rising economic inequality, competing theories as to how best to achieve economic stability, and the successes and failures of globalization. This course emphasizes Socratic discussion and debate of long-standing and intransigent economic inequities, and how best to remedy those inequities.

## **ADVANCED PLACEMENT UNITED STATES GOVERNMENT/ECONOMICS [1166]**

(Twelfth Grade; 2 semesters)

This is a year-long course encompassing the entirety of United States government and politics, as well as fulfilling the Economics requirement. Governmental topics include the nature of federalism and republican government, separation of powers and checks and balances between legislative, executive, and judicial branches, as well as civil liberties and rights as enshrined in the Constitution and as interpreted by the Supreme Court over time. The course also focuses on contemporary politics as made manifest in voting patterns, campaigns, political parties, ideologies, interest groups, and the media.

Economics topics addressed include the origins of capitalist thought, how markets work, supply and demand, how individual business make economic choices, labor in a free market economy, social welfare policy, the federal budget, unemployment and inflation, rising economic inequality, competing theories as to how best to achieve economic stability, and the successes and failures of globalization.

The course also emphasizes Socratic discussion and debate of long-standing political and economic inequities, and how best to remedy those inequities.

Prerequisite: Instructor approval

Fee: An exam fee will apply.

## **AMERICAN IDENTITY: AN ANALYSIS OF RACE, CLASS AND GENDER IN AMERICAN SOCIETY [1126]**

(Eleventh & Twelfth grade; 1 semester)

This course explores the extent to which race, social class, and gender have had a profound impact on the evolution of American society from its inception to the present day. The course will survey a range of themes related to historical and contemporary inequities in American society, the likely reasons for why those inequities continue to persist, and possible solutions that might address those persisting inequities. Central to the curriculum of the course will be analysis of the lived experience of Black Americans, Asian Americans, Latino-Americans, Indigenous Americans, and women, and including issues related to gender identity. Central to the spirit of the course are the school's mission statement and philosophy, which affirm the ideals of

reverence and respect for all peoples and their beliefs, the quest for human rights, and the transformation of unjust social structures.

### **INTRODUCTION TO LAW [1108]**

(Eleventh & Twelfth grade; 1 semester)

This is a one-semester course that introduces students to the nature and scope of the American legal system, both criminal and civil. Students read and brief United States Supreme Court cases addressing, for example, the rights of people accused of crimes, the death penalty, police powers, the form and substance of the criminal trial, the relationship between the law and morality, and the sanctity of contracts. This class is predominantly Socratic in nature, in that the course emphasizes discussion and debate of long-standing inequities within the American legal system, and how best to remedy those inequities. This course satisfies one semester of the UC “g” requirement.

### **ADVANCED PLACEMENT PSYCHOLOGY [1168]**

(Eleventh & Twelfth grade; 2 semesters)

The Advanced Placement Psychology course introduces students to the systemic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological basis of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they follow scientific methodology, evaluate claims and evidence, and effectively communicate.

Prerequisites: Writing sample and recommendation of current English and Social Studies instructors

Fee: An exam fee will apply.

### **GLOBAL HEALTH [1117; ONE SCHOOLHOUSE]**

(Eleventh & Twelfth grade; 1 semester or 2 semester options)

The study of health in a global context is one of the fastest growing college majors, and global health is one of the major challenges of our time. This interdisciplinary, project-based course introduces students to the complex political, economic, and medical forces that impact the health inequity and expected lifespan of various human populations. Students explore health care disparities, infant mortality, epidemiology, infectious disease transmission and prevention, health care reform and global health initiatives. By the end of this course, students will understand the multifaceted challenges that organizations like the World Health Organization and Centers for Disease Control and Prevention are trying to solve. Students wishing to pursue a global health project may enroll in the course for the full year. For students continuing into Semester II, the course shifts into personalized, project-based work, where students engage in deep, sustained inquiry; authentic and iterative research; critical analysis; and rigorous reflection, revision, and assessment as they journey through a self-designed, long-term activism, design, or research project on the topic of their choosing. Guided by a One Schoolhouse teacher, students pursue individual study/self-assessment or collaborative seminar/peer-review. Students can choose from the different pathway options available.

Fee: A \$600.00 course fee will apply if taken for one semester; a \$995.50 course fee will apply if taken for two semesters.

### **ADVANCED PLACEMENT HUMAN GEOGRAPHY [1184; ONE SCHOOLHOUSE]**

(Eleventh & Twelfth Grades)

This course revolves upon the five core themes of geography: location, place, region, movement, and human-environment interaction. Students learn how to study the systemic patterns and processes that have shaped human understanding, use, and alteration of the earth's surface (including agriculture, industries, markets, and urbanization). Students learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geography Standards. Using personalized learning options, collaborative discussions, and creative synthesis applications, students develop an appreciation of the variables that geographers consider when analytically problem-solving for the contemporary challenges facing our world. Core competencies developed throughout the course include: the ability to develop and apply multivariable analyses based upon the themes of geography, active engagement with current events, and collaborative problem solving that evaluates the potential unintended consequences of interventions into local, regional, and global communities. Students taking this course are well prepared for the AP® Human Geography Exam in May.

Fee: A \$995.50 course fee will apply.

## **BUSINESS AND ECONOMICS [1128; ONE SCHOOLHOUSE]**

(Eleventh & Twelfth grade; 1 semester or 2 semester options)

Business and Economics students develop a strong understanding of basic economic principles and delve into business planning, development, and management. They also examine American business and financial structures through different lenses, such as class, race, and gender. This allows students to thoroughly analyze how specific demographics have benefitted from business opportunities and monetary policies, in contrast to how others have been ignored, providing a clearer picture of how the American economy has operated since the country's inception. Students learn the fundamentals of microeconomics, including supply and demand, incentives, pricing, and production, followed by macroeconomic concepts such as economic indexes, the Federal Reserve, financial markets, trade agreements, and globalization. This course is ideal for students considering a college degree in economics, business, or management. By the end of the fall semester, students will have a solid foundation to analyze current events in the corporate world and the international economy. Students wishing to pursue a business or economics project may enroll in the course for the full year. For students continuing into Semester II, the course shifts into personalized, project-based work, where students engage in deep, sustained inquiry, authentic and iterative research, critical analysis, and rigorous reflection, revision, and assessment as they journey through a self-designed, long-term activism, design, or research project on the topic of their choosing. Guided by a One Schoolhouse teacher, students pursue individual study/self-assessment or collaborative seminar/peer-review. Pathway options from which students choose include:

- Spring Activism Seminar: In this seminar, students identify a need and create a plan to effect economic, environmental, political, or social change in a target community. Utilizing a social science approach to research and evaluation, students are guided through the process of planning the deployment of a novel idea and identifying markers of success. Students may create a strategic plan for a club or non-profit or design an artistic product in this seminar.

- Spring Design Seminar: In this seminar, students design a technological solution to a real-world problem. Through the engineering design process/scientific method, students gather and analyze data to determine the effectiveness of their model or the accuracy of their hypothesis. Students may prototype and produce a public product in this seminar.

- Spring Research Seminar: In this seminar, students answer a theoretical or ethical question. Utilizing the social science/humanities tools for source evaluation, students collect, critique, and evaluate artifacts or primary source documents to explore their thesis. Students may create a written or multimedia product in this seminar.

Prerequisites: Completion of Algebra II

Fee: A \$600.00 course fee will apply if taken for one semester; a \$995.50 course fee will apply if taken for two semesters.

## **THEOLOGY DEPARTMENT**

At the heart of Louisville, and the faith formation of the community, is the person of Jesus Christ—living out the charism of the school, which is “to bring Christ to all and all to Christ.” The focus of the theology department at Louisville is to present fundamental content of Catholic teaching as handed down to us in the Church, as regards faith, morals, asking ultimate questions, and seeking truth. The study of religion at Louisville seeks to connect students to their faith as a means to form a relationship with God and, within that process, to become a person for others. Woven throughout the academics of theology are opportunities to celebrate the Liturgy, attend retreats for spiritual growth, and to take action in Christian service.

### **WHO IS JESUS CHRIST? [0946]**

(Ninth Grade; First Semester)

This course satisfies the USCCB subject theme: Who is Jesus Christ?

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course, students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is, students will also learn who he calls them to be and to put love into action in their lives...

### **THE MISSION OF JESUS CHRIST (THE PASCHAL MYSTERY) [0948]**

(Ninth Grade; Second Semester)

This course satisfies the USCCB subject theme: The Mission of Jesus Christ (The Paschal Mystery)

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails. This course satisfies one semester of the UC “g” requirement.

### **PRAYER AND SACRAMENTS [0950]**

(Tenth Grade; First Semester)

This course satisfies the USCCB subject theme: Sacraments as Privileged Encounters with Jesus Christ

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way through the sacraments and prayer. Students will examine each of the sacraments in detail to learn how they may encounter Christ throughout life, especially through the Eucharist. Students will also spend time in prayer, reflection from liturgy, Scripture, music, poetry, art, and silence. This course satisfies one semester of the UC “g” requirement.

### **THE CHURCH [0952]**

(Tenth Grade; Second Semester)

This course satisfies the USCCB subject theme: Jesus Christ’s Mission Continues in the Church

The purpose of this course is to help the students understand that through the Church they encounter the living Body of Christ—which has human and divine elements. Students will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. In this course, Church events will be studied, while emphasizing the sacred nature of the Church. This course satisfies one semester of the UC “g” requirement.

### **THE BIBLE [0954]**

(Eleventh Grade; First Semester)

This course satisfies the USCCB subject theme: The Revelation of Jesus Christ in Scripture

The purpose of this course is to give students a general overview and appreciation of the Sacred Scriptures. Through their study of the Bible, students will come to encounter the living Word of God, Jesus Christ, and how God has been present through Salvation History from Adam and Eve to present time. In this course, they will learn about the Bible, authored by God through inspiration, and its value throughout the world. They will learn how to interpret the Bible more in depth, as well as apply it to their daily lives to become more aware of God's unconditional love for them. They will also become familiar with the major sections of the Bible and the Books in both the Old Testament and New Testament. Students will pay particular attention to the Gospels, where they may grow to know Jesus Christ more personally. This course satisfies one semester of the UC "g" requirement.

### **CATHOLIC SOCIAL TEACHING [0956]**

(Eleventh Grade; Second Semester)

This course satisfies the USCCB subject theme: Living as a Disciple of Jesus Christ

The purpose of this course is to introduce students to the Church's social teaching. In this course, students are to learn how Christ's concern for others, especially the poor and the marginalized, is present today in the Church's social teaching and mission. This course will cover the Seven Themes of Catholic Social Teaching: life and dignity of the human person, community and participation, care for creation, solidarity, dignity of work and the rights of workers, options for the poor and vulnerable, and rights and responsibilities. Through this course, students will reflect on how we are all called to honor the human dignity of every person in all that we do. This course satisfies one semester of the UC "g" requirement.

### **CHRISTIAN MORALITY [0958]**

(Twelfth Grade; First Semester)

This course satisfies the USCCB subject theme: Life in Jesus Christ.

The purpose of this course is to help students understand that it is through Christ that they can fully live out God's plans for their lives. Students learn the moral concepts and precepts that govern the lives of Christ's disciples and apply them to current life experiences. Students consider the Ten Commandments, Two Great Commandments of Jesus, and the Beatitudes to assist them in their formation of conscience and making responsible decisions. Students will also learn how Christian Morality can be used in their daily decision-making and how they are each called to invite others to do the same. This course satisfies one semester of the UC "g" requirement.

### **WORLD RELIGIONS [0960]**

(Twelfth Grade; Second Semester)

This course satisfies the USCCB subject theme: Ecumenical and Interreligious Issues. The purpose of this course is to help students understand the manner in which the Catholic Church relates to non-Catholic Christians as well as to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God's Revelation, the course is intended to help students recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches and ecclesial communities as well as in non-Christian religions, thereby recognizing the value of interreligious dialogue as well as the ways in which other systems of belief and practice differ from the Catholic faith. This course satisfies one semester of the UC "g" requirement.

## **VISUAL ARTS DEPARTMENT**

### **2-D STUDIO ART [0183]**

(Ninth, Tenth, Eleventh & Twelfth Grades; 2 semesters)

This course introduces students to the elements of design and principles of two-dimensional art. Drawing is the primary focus for the class for the first semester. Students will work from life as well as from their

imaginations. The second semester explores color through drawing, design, painting and printmaking. The art department provides all materials for use in this class. This course satisfies the California State University and University of California VPA requirement.

Fee: \$150

### **3-D STUDIO ART [0187]**

(Ninth, Tenth, Eleventh & Twelfth Grades; 2 semesters)

This course explores three-dimensional art through the four different types of sculpture: casting, carving, modeling, assembling. Students will work with clay, papier mache, found objects, plaster, fabric and other materials supplied by the art department. Ceramic work includes several hand building techniques. Basic sewing and carving skills will be covered in various projects. This course satisfies the California State University and University of California VPA requirement. This course is open to students in 9th-12th grade.

Fee: \$250

### **ADVANCED 3-D STUDIO ART [0197]**

(Tenth, Eleventh & Twelfth Grades; 1 semester)

This is the next level of 3D Studio Art, which will continue focusing on the four types of sculpture – carving, casting, modeling and assembling – using papier mâché, fabric, wire, clay, and various other materials. Students will build on techniques, vocabulary and principles of form they know, and be introduced to new techniques and materials. Developing their drawing skills will enhance the creative process, which includes brainstorming and recording projects from ideas to finished pieces.

Prerequisite: A grade of 80%/B- or higher in 3-D Studio Art.

Fee: \$150

### **PHOTOGRAPHY [0169]**

(Tenth, Eleventh & Twelfth Grades; 2 semesters)

In this course students will learn about the mechanics of 35 mm cameras, both manual and digital. The focus of the first semester applies this knowledge to darkroom work while the second semester introduces digital projects. Students will shoot and process black and white film provided by the art department. The darkroom will be used for the creation of photos and the computer lab will be used for the creation of digital prints. All materials will be supplied by the art department, but it is strongly recommended that students provide their own cameras. This course satisfies the California State University and University of California VPA requirement.

Fee: \$250

### **SEWING [0185]**

(Tenth, Eleventh & Twelfth Grades: 1 semester)

This course will cover all aspects of sewing including hand-stitching, machine sewing, embroidery, and more. Students will learn, or further develop, many sewing techniques and stitches applying them to both traditional sewing projects and non-traditional mixed media ones. Vocabulary, principles of form, and specific artists will be studied in addition to techniques. Learning and developing basic drawing skills will enhance the creative process, which includes brainstorming and recording projects from ideas to finished pieces. The art department provides most materials for projects in this course.

Prerequisite: Completion of any Visual Arts course that satisfies the VPA requirement.

Fee: \$150

### **POTTERY [0192]**

(Tenth, Eleventh & Twelfth Grades; 1 semester)

This course focuses on working with clay, emphasizing throwing pots on the wheel. Projects will include making bowls, mugs, and jars. Students will learn to pull handles and add embellishments. Some hand-building techniques will also be covered. These will include pinch pots, mold making, extrusion, and jewelry construction. Students will work with clay reconstitution through using a pug mill. Vocabulary, principles of form, specific artists, and movements in art will also be studied.

Prerequisite: Completion of any Visual Arts course that satisfies the VPA requirement.

Fee: \$120

### **ADVANCED PLACEMENT DRAWING [0157]**

(Eleventh & Twelfth Grades; 2 semesters)

This course involves intense independent study for the serious art student. A portfolio of drawing-related artwork consisting of twenty-four pieces is submitted for evaluation to the AP Review Board. This course satisfies the California State University VPA requirement. This course satisfies the UC “g” and VPA requirement. This course is offered alternate years with AP 2-D Portfolio. AP Drawing will be offered during the 2025-2026 academic year.

Prerequisites: Instructor approval, outside coursework and a B/3.0 or higher in 2-D Studio Art

Fee: \$250; an additional exam fee will apply

### **ADVANCED PLACEMENT 2-D ART AND DESIGN [0159]**

(Eleventh & Twelfth Grades; 2 Semesters)

This course involves intense independent study for the serious art student. A portfolio of artwork related to two-dimensional design is submitted for evaluation to the AP Review Board. Students will create twenty-four major artworks for review. This course satisfies the California State University VPA requirement. This course satisfies the UC “g” and VPA requirement. This course is offered alternate years with AP Drawing Portfolio. AP 2-D Design will be offered during the 2026-2027 academic year.

Prerequisites: Instructor approval, outside coursework and a B/3.0 or higher in 2-D Studio Art

Fee: \$250; an additional exam fee will apply.

### **ADVANCED PLACEMENT 3-D ART AND DESIGN [0195]**

This course will involve intense independent study of three-dimensional techniques for serious art students. Each student will develop a portfolio of work related to three-dimensional design to be submitted to the AP Review Board. For the requirement, students will create 24-26 major works of art in a variety of techniques. This course is open to students in 11th-12th grades.

Prerequisites: Instructor approval, outside coursework and a B/3.0 or higher in 3-D Studio Art

Fee: \$250; an additional exam fee will apply.

### **AP ART HISTORY [ONE SCHOOLHOUSE]**

(Eleventh and Twelfth Grades; 2 semesters)

Students in Art History and AP® Art History examine and critically analyze major forms of artistic expression from diverse cultures spanning 27,000 years. By investigating an image set of 250 works, students develop a contextual understanding of art history from a global perspective. Influences such as patronage, politics, class, belief systems, gender, ethnicity, and cross-cultural interactions inform students’ analysis of the style and content of art. Emphasis is placed on analytical and critical thinking skills, the language of art history, and the methods used by art historians to interpret art objects. Students experience, research, discuss, and write about art, artists, and art making. Upon completion of this course, students will have the tools to recognize important works of art and historical styles as well as understand historical and cultural context. Students choosing the AP

class are expected to delve deeper into the topics, take AP-style assessments, and prepare for the AP exam in the spring. This course satisfies the California State University and University of California VPA requirement. Fee: A \$995.50 course fee and an additional exam fee will apply.

### **GRAPHIC DESIGN [0124]**

(Tenth, Eleventh & Twelfth Grade, 1 semester)

Students of the Graphic Design Course will learn the basics of visual communication and creative problem solving. Through hands on projects using Adobe Creative Suite, students will explore typography, color theory, layout, and general design. Projects prompts are based on industry trends to understand graphic design through a marketing lens. Projects include photo manipulation, vector drawing, product development, and marketing campaigns. This course satisfies the UC "f" requirement.

Fee: \$50

### **ANIMATION [0123]**

(Tenth, Eleventh & Twelfth Grade, 1 semester)

In this course, students will gain an understanding and appreciation of the evolution of animation from its early history to modern trends around the world. The course develops a foundation in visual storytelling such as screenwriting and storyboarding through film analysis. Projects are adapted to all drawing levels to allow hands on exposure to various forms of animation tools and the production pipeline such as Tinkercad for character design, Adobe Animate for coding, and Adobe Premier Pro for editing. These basic skills and tools will culminate into a final short film at the end of the semester based on the student's preferred choice of tools and skill level.

Fee: \$50

### **FILM STUDY & PRODUCTION I [0126]**

(Tenth, Eleventh & Twelfth Grades; 1 semester)

This course establishes the foundation of film by focusing primarily on preproduction and production practices. By giving foundational skills in film theory, history of film, types of camera angles/shots, color, lighting, and staging, students will be able to create short film projects showcasing their skills. Concepts in cinematography, screenwriting, storyboarding, staging, and editing will be covered. Students work collaboratively using Adobe Premiere, iMovie, DragonFrame, Adobe Animate, Adobe After Effects, Scriptly, and Final Cut Pro. It promotes creative expression through the medium of video and its associated practices. Students will learn about cinematography, lighting, producing, screenwriting and editing through the music video, documentary, narrative, and experimental genres. Students work collaboratively in this class using Final Cut Pro for editing. Taken with Film Study & Production II, this course satisfies the California State University and University of California VPA requirement.

Fee: \$50

### **FILM STUDY & PRODUCTION II [0132]**

This course builds upon knowledge and techniques acquired in Film Study & Production I. Students continues to work collaboratively an individually to refine their skills in regard to production as well as post-production. Students will explore how to edit their films using Adobe Premiere and add motion graphics and effects through Adobe After Effects. Taken with Film Study & Production I, this course satisfies the California State and University of California VP A requirement.

Prerequisite: Successful completion of Film Study & Production I

Fee: \$60

## **YEARBOOK [0190]**

(Eleventh & Twelfth Grades; 2 semesters)

This full year class involves the production of Le Roi, Louisville's yearbook, as well as Vision and Voice, the literary magazine. Students will learn to adhere to the principles of art and design while creating layouts using Adobe InDesign, take photographs using an SLR digital camera, adjust photographs and graphics in Adobe Photoshop and write copy for stories/captions using proper journalistic guidelines. Editors and staff members work collaboratively to establish the theme, content, organization and style for Le Roi. Students will also assess and organize writing and art submissions as well as create layouts for the literary magazine.

Prerequisite: Completion of any Visual Arts course is strongly recommended.