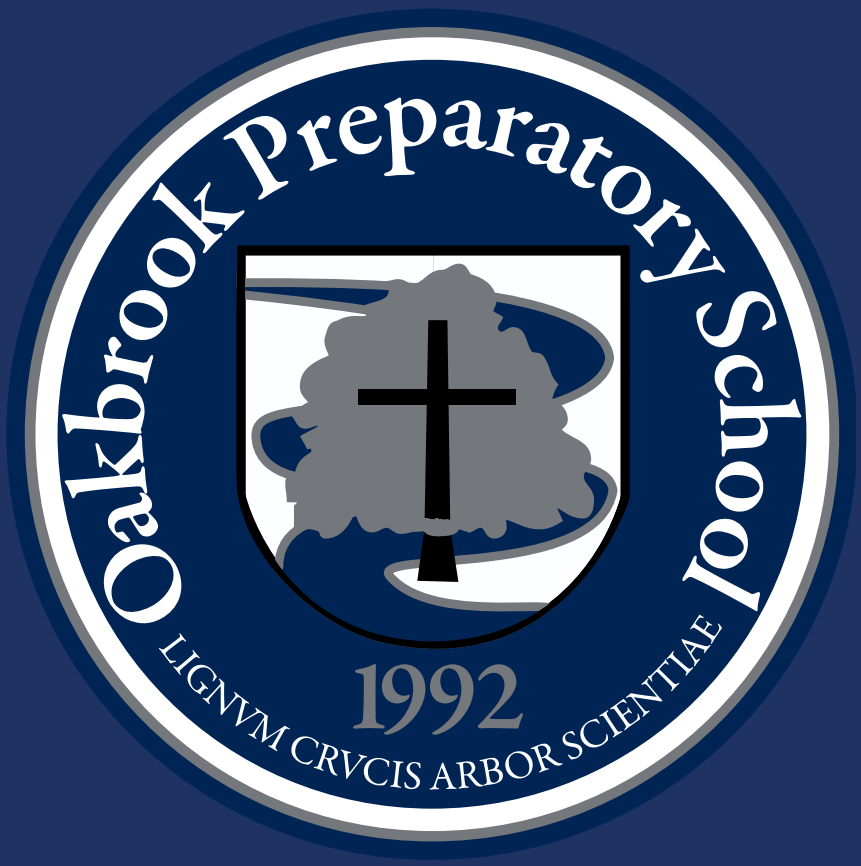
2018-2019

Oakbrook Preparatory School

CURRICULUM GUIDE



CHRIST-CENTERED. COLLEGE PREPARATORY.

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OUR MISSION

Built on a foundation of Christian faith, Oakbrook educates students to be independent learners in a changing world.

Integration of Faith and Learning

At Oakbrook Preparatory, learning cannot be separated from who we are as believers in Christ, so not only will content in all classes be evaluated from a biblical perspective, but our teachers will seek to use methodologies in their teaching that also reflect a biblical perspective. The ultimate goal is for our students to understand and apply a biblical worldview to every aspect of their academic studies and life at Oakbrook Preparatory. In order to help students develop their understanding not only of a biblical worldview but of other worldviews, teachers will deliberately and appropriately expose students to viewpoints, some of which may not be Christian in content or authorship. This exposure is done intentionally and with great care to help prepare students to live out their faith and be discerning in all aspects of their lives in order to help them strengthen their own biblical worldview and be prepared to deal with other worldviews from a biblical perspective.

Spring Intensive

Spring Intensive is an innovative curricular feature which allows for in-depth study of both traditional and non-traditional learning opportunities. During Spring Intensive, students have the opportunity to be involved in one of three options: classes on campus, trips of educational or mission focus, or an internship if the student is a junior or senior. Internships require an application and offer students the chance to observe and work alongside a professional in the business world. This internship experience often allows students to determine whether or not a career path may be a good choice for them in the future. Various trips and off-site courses are also offered. These trips serve a variety of functions such as meeting class requirements, providing educational experiences as well as providing missions and service opportunities. Students who wish to be considered for a trip must be in good behavioral standing and current in their financial status, and may be removed from a trip if they fall out of good behavioral standing or are not current on financial status at any time.

Global Scholar

To earn the Global Scholar Distinction upon graduation, students must earn a grade of 85 or higher in at least five AP classes in the following content areas:

1) Languages: Two from two different languages selected from English and/or world languages

Oakbrook options include: AP English Literature (or Language), AP Spanish Language, or AP German Language
*Students taking 4 or more World Language classes at Oakbrook will meet the WL requirement.

2) Global Perspective: One offering a global perspective

Oakbrook option: AP Human Geography, AP World History or AP Art History.

3) Math/Science: One from the sciences or mathematics content areas
Oakbrook options include: AP Calculus AB, AP Statistics, AP Biology, AP Chemistry, AP Physics, AP Computer Science, AP Computer Science Principles.

4) Other: One or two** additional classes from any content area other than languages.

*** Note: A student may submit a letter verifying the student's mastery of a language not currently available within Oakbrook's offering of Exams for consideration. This verification will satisfy the requirement for ONE AP Class in the language category. However, a student who utilizes this option must submit an additional AP class from another content area.*

Academic Policies

Attendance

Class attendance is absolutely requisite. If, for any reason, there are more than eight absences in any class in any one semester, credit for the course will be subject to review by the Director. A loss of academic credit can occur if a student's total absences from class approach a level which is felt by the school to compromise her or his learning and the integrity of the course.

Students who fail a course required for graduation must repeat and pass the course in order to graduate.

Minimum Course Load

All students in grades 9-11 are required to have a full class load. Seniors are required to have a minimum of four classes. In special circumstances, students may be given a period for study.

Levels of Courses

College Preparatory: These courses are designed to fulfill the requirements to earn a high school diploma and prepare students for college. They earn weighted grade points as designated on the South Carolina Uniform Grading Scale.

Honors: These courses are designed to be academically challenging and preparation for advanced placement courses.

AP (Advanced Placement): These courses are designed to be academically challenging and are taught on the college level. AP courses follow the curriculum provided by the College Board. College Board National AP Exams are in May of each year and cost $95 each. Students will be responsible for purchasing their AP course materials including but not limited to their textbook, review book, and notebook. Books may be purchased on your own or rented from OPS. We recommend that students take no more than two their Sophomore year, three their Junior year and three their Senior year.

Retaking the Same Course

Students may only retake the same course under the following conditions:

1. If the student earned a grade lower than a C in the course, the course must be retaken within the following academic year. In this case, the grades earned in both classes will be computed in the student's GPA.
2. A student may retake any course that was taken prior to the ninth grade year. The course should be retaken within the following year. In this case, only the grade earned in the second course will be counted, regardless of which grade was the highest.

SAT/ACT

Students in upper grades will be offered specific instruction in preparation for the SAT (Scholastic Aptitude Test) and ACT (America College Testing) in College Connect. Students should plan to take one or both of these tests by the conclusion of their junior year. The PSAT is administered each fall to all students in grades eight through eleven.
Our College Guidance faculty will assist students with scholarship and college admission forms.
For more information regarding the SAT and ACT, visit their respective websites:
SAT— www.collegeboard.com
ACT— www.act.org

College Board School Code: 411849

Graduation Requirements

Courses	Units
English/Language Arts	4
Mathematics	4
Science	3*
US History & Constitution	1
Economics	1
US Government	0.5
Other Social Studies	1
Fitness	1
World Language	2**
Computer Science	1
Christian Education	1
Senior Project or AP Seminar	1
Fine Arts	1***
Other Electives	5
	26.5 total

*Physical Science is a prerequisite for Chemistry and Physics but does not count toward the three required lab sciences required for graduation. The three sciences must be from at least two different fields (biology, chemistry, or physics).
** College entrance will require at least two units of the same foreign language (Clemson University and other competitive schools require three.)
*** Must be appreciation, performance or history

Carnegie Units
The South Carolina Uniform Grading Scale (see p. 6) and the system for calculating GPAs and class rank will apply to all courses carrying Carnegie units, including units earned at the middle and upper school level (i.e. Algebra I, Geometry, and Physical Science).

Grade Point Averages
All Carnegie unit courses offered by Oakbrook will be designated and weighted as College Preparatory, Honors, or Advanced Placement. Students will be encouraged to pursue Honors level work based on standardized test scores, academic performance (minimum 85 average), and a teacher recommendation. The rigor of the honors curriculum will prepare students for the opportunity to select AP courses. Students will need to maintain a 85 average in order to remain in honors classes. Students must be enrolled at Oakbrook since 9th grade to be included in our rank. Student rank is released to colleges after graduation.

Dual Credit/Dual Enrollment/Onlne Enrollment
Dual credit refers to taking a specific college-level class while in high school and earning credit towards your high school graduation requirements AND college at the same time. Dual enrollment refers to being enrolled in a college-level class while in high school, but ONLY earning college credit. No credit is earned towards high school graduation requirements. Oakbrook does not award Dual credit except in special circumstances for which a student must have written administrative permission. Oakbrook will award honors credit but will not listed on the transcript or be factored into the GPA. Online courses will be listed on the student's Oakbrook transcript but the grade will not be counted towards their GPA.

Academic Probation
A student who fails two or more courses for a term will be placed on Academic Probation for the subsequent term. The student's record and performance will undergo faculty review at the end of the term to determine whether the student is making sufficient progress to remain at Oakbrook. Note: No student on probation is allowed to run for any school office and driving privileges for upper school students may be suspended.

Valedictorian/Salutatorian
The GPA and/or class rank is used for school activities requiring rank placement such as top GPA award (presented to student with highest GPA in grades nine, ten, and eleven); junior marshals (top six in junior class) and various senior honors and scholarships. The valedictory and salutatory awards are presented to the seniors with ranks of one and two, respectively. Students must be enrolled at Oakbrook since 9th grade to qualify.

Honor Code
Students are taught to be responsible citizens where self--discipline is promoted over a discipline policy. Each year students sign the honor code and pledge to honor academic and personal integrity and uphold the values of honesty, integrity, respect, and responsibility.

10 Point Grading Scale

South Carolina Uniform Grading Scale Conversions				
Numerical Average	Letter Grade	College Prep Weighting	Honors Weighting	AP Weighting
100	A	5.000	5.500	6.000
99	A	4.900	5.400	5.900
98	A	4.800	5.300	5.800
97	A	4.700	5.200	5.700
96	A	4.600	5.100	5.600
95	A	4.500	5.000	5.500
94	A	4.400	4.900	5.400
93	A	4.300	4.800	5.300
92	A	4.200	4.700	5.200
91	A	4.100	4.600	5.100
90	A	4.000	4.500	5.000
89	B	3.900	4.400	4.900
88	B	3.800	4.300	4.800
87	B	3.700	4.200	4.700
86	B	3.600	4.100	4.600
85	B	3.500	4.000	4.500
84	B	3.400	3.900	4.400
83	B	3.300	3.800	4.300
82	B	3.200	3.700	4.200
81	B	3.100	3.600	4.100
80	B	3.000	3.500	4.000
79	C	2.900	3.400	3.900
78	C	2.800	3.300	3.800
77	C	2.700	3.200	3.700
76	C	2.600	3.100	3.600
75	C	2.500	3.000	3.500
74	C	2.400	2.900	3.400
73	C	2.300	2.800	3.300
72	C	2.200	2.700	3.200
71	C	2.100	2.600	3.100
70	C	2.000	2.500	3.000
69	D	1.900	2.400	2.900
68	D	1.800	2.300	2.800
67	D	1.700	2.200	2.700
66	D	1.600	2.100	2.600
65	D	1.500	2.000	2.500
64	D	1.400	1.900	2.400
63	D	1.300	1.800	2.300
62	D	1.200	1.700	2.200
61	D	1.100	1.600	2.100
60	D	1.000	1.500	2.000
59	F	0.900	1.400	1.900
58	F	0.800	1.300	1.800
57	F	0.700	1.200	1.700
56	F	0.600	1.100	1.600
55	F	0.500	1.000	1.500
54	F	0.400	0.900	1.400
53	F	0.300	0.800	1.300
52	F	0.200	0.700	1.200
51	F	0.100	0.600	1.100

Course Selection

Registration and Scheduling

All full-time students must be enrolled in a minimum of six courses, five of which must be full-credit Oakbrook courses, each semester during the regular school year. This ensures that students maintain a balance of scheduled course work while attending Oakbrook. Students will be counseled on course selection and advised on schedule arrangements. Parents should regularly review with their students their progress toward the completion of graduation requirements. Problems, questions, and special requests should be directed to the Upper School Director. Registration for all Honors and AP courses requires satisfaction of prerequisite requirements and teacher approval. In the event a student desires to take a class but does not meet the prerequisites or is not recommended by the teacher, the student may fill out an appeals form. The form must be signed by the students and the teacher and will be evaluated on a case by case basis by the administration team. We make every effort to place students in the appropriate classes. Students should seek to take classes that will put them in their "learning zone." Research shows that we learn best when we are appropriately stretched and challenged. Classes that are too easy or too hard actually impede the learning process. Taking classes that look good on a resume but are too difficult actually has the opposite effect and truly hinders student success. Teachers will use a variety of assessment tools and learning standards to make recommendations for class selection that will help students take classes that will put them in that "learning zone."

Course Prerequisites and Selection

As students are choosing courses, it is important for them to read the Course Descriptions in order to see prerequisite requirements. The prerequisites include the courses that must already have been successfully completed to proceed to the next level course as well as requirements for grades and proficiency to be eligible for a course. It is critical that students and parents plan carefully for each year as well as for the four-year academic plan in order to meet appropriate graduation requirements and to be able to take desired elective courses. Course availability is dependent upon enrollment.

Schedule Changes

When considering schedule choices for the year, students and parents should keep in mind that schedule changes are not allowed after a two week drop/add period and exceptions may not be granted unless new and unanticipated factors develop. If a schedule change is necessary, a student must meet with the teacher and Upper School Director.

Student Services

Release of Academic Records

Students who have outstanding financial obligations will not receive diplomas, final report cards, or official transcripts. It is the parent's responsibility to ensure all financial arrangements have been made.

Transcripts

Requests for transcripts must be made through Naviance Family Connection under the "Colleges I'm Applying To" tab. Normally, when colleges or other programs require official transcripts, they expect them to be mailed or sent electronically directly from Oakbrook Preparatory. Transcripts and/or report cards will not be released until satisfactory arrangements are made with the business office concerning financial obligations.

Transcripts for Scholarship Purposes

Parents and students may request that senior transcripts mailed in the fall and spring to prospective colleges reflect weighted GPA for college admission, financial, and/or scholarship purposes.

Accreditation

Oakbrook is accredited by AdvancEd, Southern Association of Schools and Colleges, and the South Carolina Association of Independent Schools.

College Counseling

Students must notify their college counselor two weeks ahead of application deadlines and must give teachers one month notice when requesting letters of recommendation. We will submit college transcripts for scholarship purposes or other admissions purposes upon request.

College Connect

College Guidance at Oakbrook Prep begins in 9th grade primarily during the weekly College Connect class. We begin by focusing on adjustment to high school and learning a variety of soft skills including how to manage time, navigate Naviance, choose the best courses, work in groups, communicate with teachers, and many more. We continue with this process through 10th grade where students hear from a variety of career speakers as well as lessons on ACT and SAT preparation. The Junior year focus on college planning is more focused as students hear from a wide variety of College representatives. This is also the year when the Family College Conference is scheduled when each student and their family meet with the Director of College Guidance to discuss the expectations of and requirements for college application. Each summer before Senior year a Boot Camp is held for the Seniors to begin applying to colleges and prepare their college essay via a College Essay Workshop. The remainder of the year seniors are the focus of the Director of College Guidance as they prepare their applications to colleges, receive responses and make their final college decision.

The goal of the Oakbrook College Guidance department is to use an orderly and gradual process to assist students in being fully prepared to select a college that is the best fit academically, spiritually, socially, and financially for them and their families.

"College is a fit to be made, not a prize to be won". Director of College Guidance; Wheaton Academy

Overview of Course Offerings

English Department — 4 units required for graduation required for graduation

Courses	*Open to Grades*
English I OR English I Honors	9
English II OR English II Honors	10
English III CP/H OR AP English Language and Composition	11
English IV OR AP English Literature and Composition	12

Math Department — 4 units required for graduation

Algebra 1	8,9
Geometry	8,9,10
Algebra 2	9,10
PreCalculus or Algebra III	10,11,12
AP Calculus, AP Statistics, Calculus-H/Statistic-H	10,11,12
Calculus II	12

Science Department - 3 units required for graduation

Biology	9
Chemistry	10
AP Chemistry, AP Physics, AP Biology, Anatomy & Physiology, Physics H	11,12

Social Studies

Required:	
AP Microeconomics, or Economics CP	12
U. S. History CP or AP	10,11
American Government CP (0.5 unit) or AP U.S. Gov & Politics	11,12

*NOTE: All courses may not be offered each year

Elective:	
Global Studies II	9
AP Human Geography	9, 10, 11, 12
AP Psychology	10,11,12
AP World History	10,11,12
AP Seminar	11
AP Art History	10,11,12

World Language Department

2 units required for graduation. The two units must be in the same language. (NOTE: Some colleges require 3 units for admission)

Spanish I, German I, Chinese I	8,9
Spanish II, German II, or Chinese II - CP or Honors	9,10
Spanish III, German III, or Chinese III - CP or Honors	10,11
Spanish IV/AP, German IV/AP	11,12

For these World Language courses, students may elect CP or Honors levels, but only Honors level courses will lead to opportunities for the AP courses. Two units in the same language are required for graduation, but some universities require at least three units (Clemson, for example).

One Unit of Each Required

Fitness/Dance- Fitness; Strength Training, Dance; Advanced Dance
Computer Science -Intro to Graphic Design, Advanced Computer Programming, AP Computer Science Principles, AP Computer A
Christian Education - Worldview Foundations; World Religions, Christianity & Ethics, Foundations of Faith, Authentic Discipleship
Fine Arts- see course descriptions
AP Research or Senior Project

English

English I: Genre and Composition CP
The course will include a study of English grammar, usage, vocabulary, composition, and literature. The literature will represent a variety of world authors, and students will be encouraged to analyze these works to gain stronger foundations in writing, listening, speaking, and critical thinking skills.
Grade Level: 9 Units: 1

English I: Genre and Composition Honors
Prerequisite: 90 average in prior English and/ or teacher recommendation
The course will cover the components of the English I CP course but will extend the study by including supplemental readings as well as more extensive essays and projects. The initial honors course is a foundation course for eventual AP level courses.
Grade Level: 9 Units: 1

English II: American Literature and Composition CP
The course is an eclectic study of American literature. Fiction, non-fiction, poetry, and drama will be featured. Composition skills will be stressed as students begin literary analysis and poetry explication. Vocabulary skills will also be emphasized. Particular attention will be paid to preparation for SAT and ACT exams.
Grade Level: 10 Units: 1

English II: American Literature and Composition Honors
P*rerequisite: English I Honors or 90 average in English CP and/or teacher recommendation*
The course will extend the criteria for English II CP by requiring more extensive writing and reading experiences.
Grade Level: 10 Units: 1

English III : British Literature and Composition CP
The primary emphasis of the course will be composition and a survey of British Literature. Grammar and usage will be addressed as individual needs dictate. Students will continue to hone vocabulary skills in preparation for college entrance tests.
Grade Level: 11 Units: 1

English III: Literature and Composition Honors
Prerequisite: English II Honors or 90 average in English CP and/or teacher recommendation
Narrative, description, expository, and persuasive essays will complement the study of British Literature.
Grade Level: 11 Units: 1

AP English Language and Composition
Prerequisite: 85 or higher in English II Honors at Oakbrook and teacher recommendation. Transfer students: submission of an academic writing sample (research paper, analytical essay, 2-page minimum) for department review.
AP English Language and Composition is a rigorous college-level composition course with a focus on rhetoric, argument, and analytical and persuasive writing. Students critically read nonfiction--speeches, essays, letters, and journalism--from various time periods but also analyze some prose fiction, drama, photography, and film. Inquiry-based seminar discussions are a major focus. In the comprehensive research paper, students develop a position on a relevant civic issue and support that position with appropriate evidence.
Grade Level: 11 Units: 1

English cont.

English IV: English Literature and Composition CP

Students will construct polished essays in preparation for their college experience. A variety of essay types will be required, some of which will require proper documentation. The survey of English Literature will be the primary literary emphasis.
Grade Level: 12 Units: 1

AP English Literature and Composition
Prerequisite: C or higher in AP English Language at Oakbrook and teacher's recommendation, B or higher in English III Honors at Oakbrook and teacher's recommendation. Transfer students– submission of an academic writing sample (research paper, analytical essay, 2-page minimum) for department review.
An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such literary devices as the use of figurative language, imagery, symbolism and tone.
Grade Level: 12 Units: 1

Mathematics

Algebra I
Prerequisite: Pre-Algebra or equivalent
Algebra I Honors
Prerequisite: Pre-Algebra or equivalent and teacher recommendation
Algebra I courses focus on the study of linear equations and inequalities, as well as absolute value, polynomial, quadratic, and exponential growth and decay functions. Other topics include matrices, statistics, probability, factoring, exponential properties, coordinate geometry and irrational numbers. Students learn to use algebra concepts in real world situations and formulate a strong connection between graphs, tables, and algebra of data sets.
Grade Level: 8 Units: 1

Geometry
Prerequisite: Algebra I
Geometry Honors
Prerequisite: 85 or higher in Algebra I Honors and/or teacher recommendation
The geometry courses focus on the development of logical reasoning, both inductive and deductive, through formal proofs and discovery methods, including, but not limited to, the use of Geometer's Sketchpad computer program and constructions with a compass and straight edge. Congruent and similar polygons, parallel and perpendicular lines, arcs and chords of circles, the Platonic solids, the properties of triangles and quadrilaterals, constructions, transformations, volume, area, and right triangle trigonometry are studied in depth. Algebra is used to reinforce geometric concepts and to maintain algebraic skills.
Grade Level: 9,10 Units: 1

Mathematics cont.

Algebra II
Prerequisite: Algebra I and Geometry and/or teacher recommendation

Algebra II Honors
Prerequisite: 85 or higher in Algebra I Honors and 85 or higher in Geometry Honors OR A or higher in Algebra I CP and A or higher in Geometry CP and teacher recommendation
These courses takes ideas learned in Algebra I and goes more in depth into concepts such as solving and graphing linear equations and inequalities with one and two variables; graphing and using functions, including piecewise and absolute value functions; solving systems of linear equations and inequalities (both algebraically and geometrically) and linear equations with 3 variables. The course also explores matrices; complex numbers; quadratic and polynomial functions; operations and functions using exponents and radicals; exponential, logarithmic, and rational functions.
Grade Level: 10,11 Units: 1

Algebra III
Prerequisite: Algebra I & Algebra II
This course provides a substantial review of Algebra II, specifically function operators; operations with exponents and radicals; and exponential, logarithmic, and rational functions. The material proceeds to include conic sections, sequences and series, probability and statistics, and trigonometry.
Grade Level: 11,12 Units: 1

Pre-Calculus Honors
Prerequisite: 85 in Algebra II Honors, an A in Algebra II CP, PSAT score of 540 or better and/ or teacher recommendation
This college preparatory course develops conceptual understanding as well as applications of higher level mathematics. This course includes the study of linear, polynomial, rational, exponential, and logarithmic functions with extensive emphasis on graphing. Other topics include trigonometry, complex numbers, polar coordinates, vectors, and conic sections. Sequences and series, probability, and matrices will be introduced as time permits. Students will be required to use a graphing calculator throughout this course.
Grade Level: 11,12 Units: 1

AP Calculus AB
Prerequisite: 85 or higher in Pre-Calculus and teacher recommendation
Topics include polynomial, trigonometric, exponential, and logarithmic functions; differential calculus, including the increment of a function, the chain rule, differentials, Rolle's Theorem, Mean Value Theorem, and applications; integral calculus, including indefinite and definite integrals, techniques of integration, and applications; limits including L'Hopital's Theorem. A graphing calculator is required for this course. The last few weeks of the course will involve a detailed review and preparation for the AP exam which will be taken the first week in May. Many colleges will grant credit for first semester Calculus to those who score a 3 or higher on this exam.
Grade Level: 12 Units: 1

Calculus II
Prerequisite: 3 or better on the AB Calculus exam and teacher recommendation
The Calculus II course will be a continuation of AB Calculus for students who have taken that course in their junior/sophomore years and/or students who have taken a calculus course at the college level. We will review the major concepts from AB Calculus to start the year, then continue on with additional Calculus concepts covered under the BC curriculum.
Grade Level: 12 Units: 1

Mathematics cont.

AP Statistics
Prerequisite: 85 or higher in PreCalculus Honors or a 90 n Algebra III CP and teacher recommendation
The students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns, Sampling and Experimentation: Planning and conducting a study, Anticipating Patterns: Exploring random phenomena using probability and simulation, and Statistical Inference: Estimating population parameters and testing hypotheses. Statistical applications of given data sets will be used in a wide variety of problems, including but not limited to, agriculture, biology, business, economics, education, psychology, engineering, medicine, sociology, and computer sciences.
Grade Level: 10,11,12 Unit:1

Statistics-H
Prerequisite: Completion of Alg III or Pre-Calc
Probability and Statistics concentrates on statistics and probability with emphasis on data sampling and quantitative analysis. The course is enriched through the use of real-world problems. This class is an elective and will not count as one of your 4 math units. Course topics: Foundations of data analysis, Univariate data displays, Bivariate data and scatter plots, Basic probability concepts and applications. Probability distributions, Statistical inference, Hypothesis testing, and Project Design.
Grade Level: 10,11,12 Unit: 0.5

Calculus Honors
Prerequisite: Precalculus
Topics include polynomial, trigonometric, exponential, and logarithmic functions; limits; differential calculus, including the increment of a function, the chain rule, differentials, Rolle's Theorem, Mean Value Theorem, and applications. This course will be an introduction to a typical 1st college course in college and in designed to provide students with foundational skills needed to be successful.
Grade Level: 12 Unit: 0.5

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*Statistics-H and Calculus -H can be taken in the same year to provide an introduction to both courses before college.

** 4 units required for graduation

Science

Physical Science CP/Honors
This course will provide a basic overview of the concepts and principles of chemistry and physics while establishing a foundation for successive science courses. It will not require that the student be in a higher level math; however, a higher level of math skills and understanding of science concepts will be expected of honors students. Students in this course will be given a good foundation for the sciences that will be experienced in high school and later in technical school.
*Prerequisite for Chemistry and Physics
Grade Level: 8 Unit:1

Biology
This course is an introduction to the major characteristics of living organisms. Course topics include characteristics of life, history of life, cell structure and function, basic concepts of heredity and reproduction, and an overview of the major characteristics of organisms classified within the taxonomic system of life including their comparative anatomy and ecological relationships. A required laboratory component will provide hands-on activities to reinforce important topics.
Grade Level: 9 Unit:1

Biology Honors
Prerequisite: Teacher recommendation
This honors-level course is for motivated students who desire an in-depth and challenging program. Course content encompasses interrelationships of living things, levels of biological organization, social implications, biochemistry, and genetics. Extensive laboratory work, problem-solving and research are essential components.
Grade Level: 9 Unit:1

Anatomy and Physiology Honors/CP
Prerequisite: Biology Honors & Chemistry Honors OR Biology and Chemistry and teacher recommendation
This course is an in-depth study of the structure and function of the human body. Course topics include a survey of the major themes of biology; the principal features of organisms; the structure, physiology and metabolism of cells and tissues; the anatomy and physiology of the major mammalian organ systems, their interrelationships, and homeostatic mechanisms. A required laboratory component will stress hands-on activities in cell biology and anatomy and physiology with dissection. Labs will also have a health and sports medicine emphasis.
Grade Level: 10,11,12 Unit:1

AP Biology
Prerequisite: B or higher in Honors Biology & Honors Chemistry and/or teacher recommendation
This course is an in-depth study equivalent to college-freshman biology and includes several major themes and principles of biology with special emphasis on the characteristics of life, origin of life and evolution of diverse life forms, genetics and molecular biology of viruses, bacteria and eukaryotic organisms and ecological relationships among organisms. A comprehensive laboratory component is required and will reinforce basic principles. College credit may be obtained upon successfully passing the AP Biology Examination.
Grade Level: 10,11,12 Unit:1

Chemistry
Prerequisite: Biology and co-requisite: Algebra 2
This course is an introduction to chemistry. Students study atomic structure, chemical and physical changes, formulas, mole relationships, balancing equations, gases, properties of solids, liquids, and gases, bonding, acids and bases. Contains a major lab component.
Grade Level: 10,11,12 Unit:1

Science cont.

Chemistry Honors
Prerequisite: Honors Biology, Algebra II and teacher recommendation.
Co-requisite: PreCalculus
This is a course designed for students with exceptional academic talent and a strong desire to major in the sciences. The study includes atomic theory, stoichiometry, thermodynamics, quantum exploration of atomic structure, the relation of chemical properties to atomic theory and the periodic table, and equilibrium as applied to acid-base and redox reaction. A short introduction to organic and nuclear chemistry is part of the course. The course contains a major laboratory component.
Grade Level: 10,11,12 Unit:1

AP Chemistry
Prerequisite: B or higher in Honors Chemistry or A in CP Chemistry and PreCalc or higher concurrently
AP Chemistry is designed to offer a rigorous and challenging course that covers the chemistry and chemical principles typical of college and university general science courses. Students learn the usefulness and relevance of chemistry in both their intended areas of study and in the everyday world. The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic.
Grade Level: 11,12 Unit:1

AP Physics
Prerequisite: Chemistry Honors, 85 in Geometry, 85 or higher in Precalculus and/or teacher recommendation
AP Physics 1 covers topics typically found in a first-semester college physics course and advances student's understanding of concepts normally covered in high school physics. The course provides a solid preparation for the AP Physics 1 exam. Major topics include: Kinematics, Forces, Energy & Momentum, Rotational Dynamics, Waves, and DC Circuits.
Grade Level: 11,12 Unit:1

Physics-Honors
Prerequisite: Chemistry, Biology, Geometry and Algebra II
The physics honors course serves as a solid foundation for physics in college. It includes topics such as Kinematics both 1D and 2D, Forces, Work and Energy, Momentum, Electrostatics, DC Circuits, Magnetism, Waves, and Optics. This course should contribute to student's understanding of their everyday world and develop a language to explain those ideas. This course will be helpful to students planning to go into careers such as engineering, mechanics, astronomy, meteorology, medicine, chemistry, geology, computers, or vocational-technical training and/or taking physics in college. Algebra, geometry, and trigonometry will be used.
Grade Level: 11,12 Unit:1

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*3 units required for graduation

Physical Science is a prerequisite for Chemistry and Physics but does not count toward the three required lab sciences required for graduation. The three sciences must be from at least two different fields (biology, chemistry, or physics).

Social Studies

Global Studies II
A yearlong survey course which examines global history from the Renaissance to present day. Students are taught using a variety of methods including lecture, class discussion, research, projects, timelines, and maps. The course focuses on the social, religious, and political development of Western Europe.
Grade Level: 9 Unit:1

AP Capstone
The AP Capstone is an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two AP courses- AP Seminar and AP Research. At Oakbrook, AP Seminar is offered to juniors with AP English Language as a co-requisite course. AP Research is offered during the senior year to those students who completed the AP Seminar course.

AP Seminar
Co-requisite: AP English Language and Composition; Prerequisite: Complete course questionnaire for teacher recommendation
The AP Seminar course is an inquiry-based course that aims to engage students in cross-curricular conversations that explore real-world topics and issues from multiple perspectives. Students are empowered to collect and analyze information with accuracy and precision in order to craft and communicate evidence-based arguments. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team.
Grade Level: 11 Unit:1

AP Research
Prerequisite: AP Seminar and AP English Language
The AP Research course allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a yearlong mentored, research-based investigation to address a specific question. Students further develop the skills acquired in the AP Seminar course by learning about and understanding research methods: employing ethical research practices: and accessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic thesis paper of approximately 5,000 words and a presentation, performance, or exhibition with an oral defense.
Grade Level: 12 Unit:1

Senior Project Independent Study
The senior project at Oakbrook Preparatory School is the culmination of the Oakbrook education experience. This is a capstone project that demonstrates the student's ability to independently select, research, and execute a project that culminates in a product or service. Students also explore and research an issue of individual interest relating to their selected project writing an academic paper . Final presentations give students the opportunity to communicate their experiences in both the project and paper. The course allows students to demonstrate proficiency with 21st Century Skills of creative thinking, critical thinking, communication and collaboration.'
The Senior Project Independent Study Course is an Honors Level Course. This course or the AP Capstone program is required for graduation.
Grade Level: 12 Unit:1

U.S. History CP/H
A yearlong course that broadly examines the history of the United States from the Colonial period to the 1980s. The course focuses on the development of American political, economic, and cultural institutions as well as the historical contingencies that contributed its rise as a world power in the 20th century.
Grade Level: 10,11 Unit:1

Social Studies cont.

AP U.S. History
Prerequisite: 90 or above in both Honors En glish and Honors Global Studies II; and/or a critical reading score of 45 or higher on the PSAT.
AP U.S. History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The course prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.
Grade Level: 10,11 Unit:1

Introduction to Microeconomics-H
This year-long course is an introduction to microeconomics, macroeconomics, and international trade along with a unit on personal economics. The course emphasizes the "economic way of thinking" by learning and understanding terms and principles. Class activities and assignments are designed to engage students to apply economic concepts to their personal decision making, to develop awareness of business and entrepreneurial roles and responsibilities, and to become familiar with current US and global economic issues. Personal Finance will be covered during the 2nd semester in depth.
Grade Level: 12 Unit:1

AP Microeconomics
Prerequisite: Grade of 85 or higher in AP U.S. History or an AP Math or A in U.S. History
This year-long course is an introduction to microeconomics for students who have not taken any prerequisite economic classes. The course covers the requirements of the Advanced Placement Microeconomics course and personal finance decision making. This Advanced Placement course will emphasize the "economic way of thinking" microeconomic principles and graphs. Class activities and assignments are designed to engage students to apply economic concepts to their personal decision making, to develop awareness of business and entrepreneurship, and to become familiar with US and global economic issues. In addition, this course will introduce international economics, including the economics of developing countries.
Grade Level: 12 Unit:1

American Government CP/H
A semester long course that broadly examines the theory and function of American government. Emphasis is placed on the Constitution, Federalism, Civil Rights and Liberties, and the functions of the Executive, Legislative, and Judicial branches. The course includes training in parliamentary procedure, bill writing, and mock legislative debate. Honors will be a full year course and will continue where CP leaves off.
Grade Level: 11,12 Unit:1

AP U.S. Government & Politics
Prerequisite: 85 average in AP U.S. History or A average in CP U.S. History .
AP Government is a class designed as a college-level course, meeting the requirements necessary to take the Advanced Placement Test. It includes an in-depth study of the United States Political System; its development, the principal processes and institutions through which the system functions, and the establishment and implementation of governmental policies.
Grade Level: 11,12 Unit:1

Social Studies cont.

AP World History
Prerequisite: Global Studies II, or AP Human Geography, and a grade of no lower than 85 in Honors English I, II, III, and/or teacher recommendation.
AP World History is a rigorous, college-level course designed to explore human history from 8000 B.C.E. to the present. We will emphasize the development of analytical thinking and writing skills necessary for success on a collegiate level. To this end, the course devotes considerable time to the critical evaluation of primary and secondary sources, analysis of historiography (the principles, theories, or methodology of scholarly historical research and presentation) and inquiry into global connections that have shaped our present world. A special emphasis will be given to preparations for the National AP Exam, including historical writing through essay and document-based questions (DBQ) as well as objective evaluations.
Grade Level: 11,12 Unit:1

AP Psychology
Prerequisite: 85 or higher in both honors English and previous honors social studies.
The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals . Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology . They also learn about the ethics and methods psychologists use in their science and practice.
Grade Level: 10,11 ,12 Unit:1

AP Human Geography
Prerequisite: 85 or higher in Honors Global Studies and English.
This is a study of the nature and perspectives of geography, population, cultural patterns and processes, political organization of space, agricultural and rural land use, industrialization and economic development, and cities and urban land use.
Grade Level: 10,11 ,12 Unit:1

World Languages

Spanish I CP
This Spanish course introduces students to the Spanish language and its culture. Students communicate in basic Spanish about themselves, their families, activities they enjoy, and a variety of other simple topics in the present tense. Students speak, listen, read, and write about cultural themes. Students follow basic classroom instructions in Spanish and begin to interact in Spanish. *
Grade Level: 9 Unit:1

Spanish I H
This Spanish course introduces students to the Spanish language and its culture. Students communicate in basic Spanish about themselves, their families, activities they enjoy, and a variety of other simple topics in the present tense. Students speak, listen, read, and write about cultural themes. Students follow basic classroom instructions in Spanish and begin to interact in Spanish. Honors students have opportunities to employ Spanish at higher levels of thinking that promote the skills needed to succeed in future honors courses that lead to the Spanish Language and Culture AP course.
Grade Level: 9 Unit:1

Spanish II CP/H
This course further develops students' speaking, listening, reading, and writing skills while maintaining Hispanic culture as its focus. Students incorporate past tenses and more advanced vocabulary to equip them for discussing topics apart from one's self. Students follow a higher percentage of Spanish instructions and begin to hear explanations of new material in Spanish. Students increasingly interact in Spanish. Honors students have opportunities to employ Spanish at higher levels of thinking that promote the skills needed to succeed in future honors courses that lead to the Spanish Language AP course.
Grade Level: 9,10 Unit:1

World Languages cont.

Spanish III Honors
Prerequisite: Spanish II and Spanish teacher's recommendation
This course continues to develop students' speaking, listening, reading, and writing skills while maintaining Hispanic culture as its focus. In addition to adding new verb tenses in the indicative mood, students incorporate the subjunctive mood. Vocabulary becomes more abstract, and students engage in more advanced communication that challenges them to analyze, compare, evaluate, predict, contrast, and debate. Honors students are formally assessed on these critical thinking abilities. In addition to thinking critically, students engage in pre-AP activities to prepare them for the Spanish Language and Culture AP course. Interactions between students and teacher as well as interactions between students are conducted almost exclusively in Spanish.
Grade Level: 10,11,12 Unit:1

Spanish IV Honors
Prerequisite: Spanish III and Spanish teacher's recommendation
This course continues to develop students' speaking, listening, reading, and writing skills while maintaining Hispanic culture as its focus. Students learn the most advanced verb tenses in both the indicative and subjunctive moods. Vocabulary remains abstract, and students engage in advanced communication that challenges them to analyze, compare, evaluate, predict, contrast, and debate. In addition to thinking critically, students engage in pre-AP activities to prepare them for success in the Spanish Language and Culture AP course. Interactions between students and teacher as well as interactions between students are conducted entirely in Spanish.
Grade Level: 11,12 Unit:1

AP Spanish Language and Culture
Prerequisite: Spanish III and Spanish IV and teacher recommendation
The AP Spanish Language and Culture course is comparable to a high intermediate or advanced low level college or university Spanish language course. Emphasizing the use of Spanish for active communication in real-life tasks, it focuses on developing [the student's] abilities in the three modes of communication (Interpretive, Interpersonal, and Presentational) and strengthening [the student's] cultural competencies through theme-based instruction based on a variety of authentic resources, such as: newspapers, magazines, podcasts, blogs, advertisements, television programs, films, music, video clips, and literature. Grammar and vocabulary are developed through contextualized study.
Grade Level: 11,12 Unit:1

**Students new to Oakbrook who begin with Spanish I are strongly advised to attend the Spanish Summer Crash Course or complete an independent review as directed by the Spanish I teacher to learn the preliminary material covered in previous Oakbrook Spanish classes necessary for success in Spanish I.*

German

German
German I CP
This German course introduces students to the German language and its culture. Students will learn to communicate in basic German about themselves, their families, activities they enjoy, and a variety of other simple subjects in the present and present perfect mood. There is a strong emphasis on oral participation and vocabulary development . Cultural differences and similarities are explored. Basic listening, speaking, reading and writing skills are explored.
Grade Level: 8,9 Unit:1

German I Honors
Teacher recommendation
This German course introduces students to the German language and its culture at an advanced pace and in greater depth. Students will learn to actively communicate in reading, writing, understanding and speaking German. This course is designed to promote the skills needed to do well in the honors courses that lead to the AP program.
Grade Level: 8,9 Unit:1

German II CP
Prerequisite: German I
German II concentrates on sharpening oral and aural skills acquired in German I. Grammar skills are reviewed, new grammar and new verb tenses are introduced. Vocabulary expansion will continue to be crucial and cultural connections will be expanded. Reading, writing, listening and speaking skills will be used in the classroom activities.
Grade Level: 9,10 Unit:1

World Languages cont.

German II Honors
Prerequisite: German I and German teacher's recommendation
This class reviews the oral and aural skills introduced in German I Honors. More advanced grammatical structures are stressed. Vocabulary expansion and cultural appreciation will continue. This course is designed to promote the necessary skills to do well in the honors courses that lead to the AP program.
Grade Level: 9,10 Unit:1

German III Honors
Prerequisite: German II and German teacher's recommendation
This class is designed for students who plan to complete the AP course. Reading, writing, speaking and listening skills will be practiced daily. Vocabulary expansion and cultural appreciation will continue. Students are expected to communicate mostly in German. Reading, writing, listening and speaking skills will be used in the classroom activities.
Grade Level: 10-12 Unit:1

German IV Honors
(*Seminar/Conversation)*
Prerequisite: German III and German teacher's recommendation
The purpose of this course is to fully immerse the student into the German language through reading and hearing literature as well as discussing written works in German. Written responses will also be used to process the language/subjects of the pieces read together in class. Vocabulary needed to succeed at the advanced level will be introduced and immediate application/use will be encouraged. Idioms and transitional phrases used in spoken language will be studied as well as effectively answering questions asked in the target language, German. A cumulative language reference binder will be compiled over the course of the year encouraging and enabling future (lifelong) independent learning.
Grade Level: 11,12 Unit:1

AP German Language
Prerequisite: German III and teacher recommendation
This course is specifically designed to prepare students for the Advanced Placement German Exam or college entrance exams. Listening and speaking will be the focus of the class while reading and writing will be developed through vocabulary enhancement activities. Drill will be stressed as students prepare for the AP German Exam.
Grade Level: 11,12 Unit:1

CHINESE

Chinese I CP or Honors
This Chinese I course introduces students to the Chinese language and its culture. Students will begin to learn to communicate in Chinese.
Grade Level: 9,10 Unit:1

Chinese II CP or Honors
This Chinese II course introduces students to the advanced Chinese language and its culture. Students will learn to communicate in Chinese about themselves, their school lives, activities they enjoy, and a variety of other subjects in the present indicative mood. There is a strong emphasis on oral participation and vocabulary development . Cultural differences and similarities are explored. Advanced listening, speaking, reading and writing skills are explored.
Grade Level: 10,11 Unit:1

Chinese III Honors
Prerequisite: Chinese II and Chinese teacher's recommendation
This class is designed for students who plan to complete the AP course. Reading, writing, speaking and listening skills will be practiced daily. Vocabulary expansion and cultural appreciation will continue. Students are expected to communicate mostly in Chinese. Reading, writing, listening and speaking skills will be used in the classroom activities.
Grade Level: 11,12 Unit:1

Fine Arts

Concert Band- Honors

Prerequisites and other notes: Completion of 8th grade band and/or director's approval; Participation in this class is required for students to be eligible should they choose to participate in Solo and Ensemble, All-Region and All-State organizations.

Upper School Band utilizes materials more technically demanding than band grades 5-8. Honors level band is designed for the student of advanced ability level. All Band Classes focus on the study of traditional band literature as well as transcriptions of great orchestral literature. Students will advance in technical skill, stylistic understanding of historical background, and aesthetic awareness through the study and performance of quality music literature. Performances at school and community events are an integral part of the program. Participation in the public performances and learning a solo is a required component of this course. Instruction in the honors level performing organizations will include foundations in music theory to prepare students for collegiate level music.

Grade Level: 9,10,11,12 Unit:0.5

AP Music Theory

Prerequisite: Music Theory placement test

Though AP Music Theory roughly parallels the content of a college freshman year theory course, some of the topics included are usually covered quite late in the undergraduate course of study. The material is covered very rapidly so that it can all be fit into the course; frequent homework and intensive skills practice are required of the student. Significant critical/analytical /creative thinking skills are fostered in most parts of the course, and especially in considerations of texture, harmonic progression, formal structuring, instrument transposition, and style. AP Examination questions emphasize the synthesis of musical knowledge into usable musical understanding; the final question on the test asks students to compose music in an 18th century idiom.

Oral skills: Sight-singing is taught using solfege, movable "do" system.

Aural skills: Melodic dictation using 5-7 note fragments; these are notated without rhythm. Later rhythms, triads, 7th chords and modes are introduced for identification by ear. These skills are reinforced by the singing of the same items. Harmonic dictation, in which the student must write down the soprano, brass, and harmonic functions from a brief example played on the piano are taught in the last quarter.

Analytical skills: Basics of musical analysis are presented in lecture-demo format, with vocabulary introduced as necessary to the discussion. Worksheets of practice problems dealing with current topics are assigned almost daily; these are discussed the next day in class. Many writing skills are developed in group efforts on the board and in group critiques of individual exercises.

Grade Level: 10,11,12 Unit:0.5

Music Theory

This course is an introduction to the vertical and linear dimensions of tonal music. After a review of musical fundamentals, in which students will be expected to demonstrate facility and speed in naming and spelling basic tonal materials, the course will introduce traditional contrapuntal exercises, basic diatonic harmony, and the paradigmatic construction of formal phrase units. A major concern of this course is the relationship between harmonic, contrapuntal, and formal prototypes and actual pieces of music from the 15th-20th Centuries.

Grade Level: 9,10,11,12 Unit:0.5

Fine Arts cont.

Upper School Dance
Dance is an interactive and innovative class designed to provide students with the opportunity to learn and appreciate the art form of dance. One of the main standards explored is dance technique, which enables the students to become literate in dance fundamentals, in a variety of genres, and to be engaged in activities involving body awareness, movement exploration, and the understanding of the dance elements-body, time, space, and energy. Emphasis is also put on understanding choreographic principles, processes, and structures while acquiring the skills to create and interpret ideas and feelings through dance. Students will use critical and creative thinking skills, learn history and culture, connect dance with healthy living, and relate dance with other disciplines.
Grade Level: 9,10,11,12 Unit:0.5

Advanced Dance Honors
Prerequisite: High School Dance and/or teacher recommendation
The Advanced Dance course is designed to emphasize and refine all main technique areas and master specific dance vocabulary related to the efficient and artful use of the body as an instrument. Students will understand and master all aspects of dance elements, such as body, time, space, and energy, by interweaving them skillfully throughout compositions, technique, and performance. A complex level of the choreographic principles will be studied and applied allowing students to create original dance works with coherence and aesthetic unity while directing a group of dancers through the choreographic process. Students will also analyze famous works and original student choreographed pieces and then critique and reflect on the works while implementing the dance elements. Dance history will be reviewed and applied while using critical and creative thinking skills.
Grade Level: 9,10,11,12 Unit:0.5

Studio Art I & II
The studio art experience will give students the opportunity to use a variety of mediums (pencils, pen, ink, charcoal, pastel, watercolor, paints and textile materials) while developing their individual style and creative problem solving skills. Students will demonstrate their ability to respond, to analyze, and to interpret their own continuation of the studio experience with additional mediums and styles. Studio Art II will be a continuation of the studio experience with additional mediums and styles.
Grade Level: 9,10,11,12 Unit:0.5

AP Studio Art
Prerequisites: Studio Art I & II and art teacher recommendation .
An intense art course for highly motivated advanced art students who already work at a very independent skill level. Students will complete a college level portfolio of work that includes a section that shows the variety of media & subject matter the student uses & an additional section that is a series based on one theme. A minimum of 24 high quality pieces of artwork will be created within the first 3 terms with revisions, photographing work & portfolio preparations including written support from the concentration series in term 4. The work will be presented to the AP College Board with the possibility of college credit. Summer projects are also required to be completed independently & brought into class at the beginning of the course for our first critique.
Grade Level: 11,12 Unit:0.5

AP Art History
Prerequisite: 85 or higher in either Global Studies II or AP Human Geography
AP Art History is designed to help students develop critical thinking, an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting, and other media. The course covers periods from ancient through Medieval and Renaissance to the present.
Grade Level: 11,12 Unit:1

Fine Arts cont.

Drama
In this course, students gain a basic foundation of literary, performance, and technical theatre elements while gaining a greater confidence and skill in public performance. The course is offered both fall and spring semesters. It is not required that students take both semesters; however, it is highly recommended that the spring semester course not be taken without first taking the fall course. Fall focuses on development of skill in using the voice and body in speaking and acting through dramatic reading, reader's theatre, recitations, monologues, and beginning scene work. Games and improvisation are also an integral part of the class. The spring semester builds on the first by adding movement, blocking, and technical elements. Students are involved in more in-depth scene work, becoming directors of their own original work by the end of the semester. Performance is a requirement in both fall and spring (in-class and public performances such as showcase or one-act play).
Grade Level: 9,10,11,12 Unit:0.5

Intro to Graphic Design CP
Students in this class will learn the fundamentals of computer graphics. Through a series of lessons students will master manipulation of photographs, color correction, typography, layouts, and digital presentations. Over the course of the semester students will complete individual and group projects using Apple and Adobe design applications.
Grade Level: 9,10,11,12 Unit:0.5

Advanced Graphic Design Honors
Prerequisite: Intro to Graphic Design
Students will build on the basics learned in Computer Graphics I to create short movies and multimedia projects. During the first half of the semester we will review and learn new skills and techniques. For the second half of the semester will develop and deploy a website, tablet app, or computer animation.
Grade Level: 9,10,11,12 Unit:0.5

Computer Science

Intro to Graphic Design CP
Students in this class will learn the fundamentals of computer graphics. Through a series of lessons students will master manipulation of photographs, color correction, typography, layouts, and digital presentations. Over the course of the semester students will complete individual and group projects using Apple and Adobe design applications.
Grade Level: 9,10,11,12 Unit:0.5

Intro to Computer Principles- H
Prerequisite or coreq: Geometry
This introductory survey course based on the UC Berkeley CS 10 course offers students a hands-on introduction to computer science that surrounds us every day. The course is far more than just learning to program. We'll focus on some of the "Big Ideas" in computing, such as abstraction, design, recursion, concurrency, simulation, and the limits of computation. We'll show some beautiful applications of computing that have changed the world, talk about the history of computing, and where it will go in the future.
Grade Level: 9,10 Unit:0.5

Advanced Computer Programming–H
Prerequisite: Intro to Computing Principles
Building on the drag and drop coding in Intro, this advanced programming course teaches core concepts in computer science and covers topics such as Boolean algebra, recursion, numeric algorithms, data structures, and object-oriented programming. Students will move to writing simple code as the semester progresses.
Grade Level: 9,10,11,12 Unit:0.5

AP Computer Principles
The AP Computer Science Principles course develops computational thinking skills in the context of creative problem solving. The primary goal of the course is to "introduce students to the foundational concepts of computer science and challenge them to explore how computing and technology can impact the world." The course seeks to broaden participation in computer science by attracting a diverse student body. You will learn about ways to analyze and study data, work with large data sets, and draw conclusions from trends.
Grade Level: 9,10,11,12 Unit:1

Christian Education

Foundations of Faith
A survey of the Old and New Testament designed to provide an overview of Bible History and Thematic Teachings throughout Scripture.
Grade Level: 9,10 Units: 0.5

Worldview Foundations I & II, Honors
I -An overview of the most common worldviews - presuppositions, assumptions, and frameworks through which we interpret reality. This course will further explain a Biblical Worldview: the existence of God, His character and purposes; why we exist and how we should respond.
II - We begin to understand that our worldview encompasses all of life: our mindset informs our thinking and our thinking shapes our response to everything. Students will better understand what sets a Biblical worldview apart from that of others in ten different disciplines: Theology, Philosophy, Biology, Ethics, Psychology, Sociology, Law, Politics, Economics, and History.
Grade Level: 10,11,12 Units: 0.5 (1.0)

World Religions
World Religions will introduce students to the central beliefs of the world's major religions. The religions studied will consist of Hinduism, Buddhism, Confucianism, Shinto, Taoism, Judaism and Islam. The course will consist of lecture and discussion, with various writing and reading assignments, quizzes and tests on each section. Students will have text for each section, which will be supplied by the instructor. Students should learn the foundations, characteristics and beliefs of each religion while gaining an appreciation and deeper understanding of Christianity.
Grade Level: 9,10 Units: 0.5

Christianity and Ethics
Explores contemporary ethical issues through a Christian world view. Topics of discussion will include economics, poverty, social justice, war and peace, environmental issues, sexuality and medical ethics.
Grade Level: 11,12 Units: 0.5

Authentic Discipleship
Seniors will explore how culture, worldview, and theology impact personal discipleship. Students will learn how to have an answer for their Faith, strategies for preserving their faith in the college environment, and common pitfalls students fall into. We will be looking at frequently asked questions/ doubts of Christianity.
Grade Level: 12 Units: 0.5

Fitness

Fitness & Health
This course introduces the student to the concept of physical wellness, positive emotional growth, and social development. The purpose of the course is to educate students on the necessity of implementing a regular fitness and exercise plan that will help in preventing disease, enhance students' health, and improve their quality of life.
Grade Level: 9,10,11,12 Unit: 0.5

Strength Training & Health
Strength Training and Conditioning is designed to teach students the techniques involved in designing a strong, well-defined, flexible, healthy body with more endurance. Each student is given an individualized program to reach individual goals. This class is designed for beginners to the serious athlete and a must for those interested in playing college sports.
Grade Level: 9,10,11,12 Unit: 0.5

Fitness cont.

Upper School Dance & Health
Dance is an interactive and innovative class designed to provide students with the opportunity to learn and appreciate the art form of dance. One of the main standards explored is dance technique, which enables the students to become literate in dance fundamentals, in a variety of genres, and to be engaged in activities involving body awareness, movement exploration, and the understanding of the dance elements-body, time, space, and energy. Emphasis is also put on understanding choreographic principles, processes, and structures while acquiring the skills to create and interpret ideas and feelings through dance. Students will use critical and creative thinking skills, learn history and culture, connect dance with healthy living, and relate dance with other disciplines.
Grade Level: 9,10,11,12 Unit: 0.5

Advanced Dance Honors & Health
Prerequisite: High School Dance and/or teacher recommendation
The Advanced Dance course is designed to emphasize and refine all main technique areas and master specific dance vocabulary related to the efficient and artful use of the body as an instrument. Students will understand and master all aspects of dance elements, such as body, time, space, and energy, by interweaving them skillfully throughout compositions, technique, and performance. A complex level of the choreographic principles will be studied and applied allowing students to create original dance works with coherence and aesthetic unity while directing a group of dancers through the choreographic process. Students will also analyze famous works and original student choreographed pieces and then critique and reflect on the works while implementing the dance elements. Dance history will be reviewed and applied while using critical and creative thinking skills.
Grade Level: 9,10,11,12 Unit: 0.5

Electives

Criminal Justice
Criminal Justice is an introduction to the inner workings of the three criminal justice functions in the United States, Law Enforcement, Courts and Corrections. This course will give students an overview of policing in America, the historical development of policing and the modern day challenges law enforcement faces in the United States today. Students will learn the basics of police report writing, police radio communications and have an understanding of basic law enforcement techniques. This course will give students an inside look at how cases are prosecuted, how law enforcement works with prosecutors and defense attorneys and the way the corrections system houses inmates in South Carolina and nationally.

Engineering Design and Problem-Solving -Honors
The Engineering Design and Problem-solving course will introduce students to the scope of engineering, foundations of engineering science, and engineering design. Engineering fundamentals and design methods are addressed through rigorous design challenges and reverse engineering and redesign modules. The modules are designed so that the students learn specific engineering content as they solve engineering problems in multiple contexts. Elective college credit may be available through the University of Texas-Austin for an additional fee.

Yearbook
Application and recommendation required
High School students in this course memorialize each school year by creating the school's yearbook. Students are asked to apply for this course in advance. Each student is responsible for layout design, writing copy and photography. The staff is lead by the Editor and the Adviser, Students may receive honors credit with portfolio and teacher approval.

Oakbrook Graduation Requirements

Name _____

Courses	Required Units	Completed
English	4	_____
Mathematics	4	_____
Science	3*	_____
US History & Constitution	1	_____
Economics	1	_____
US Government	0.5	_____
Other Social Studies	1	_____
Fitness	1	_____
World Language	2**	_____
Computer Science	1	_____
Christian Education 1		_____
Sr. Project or AP Research	1	_____
Fine Arts	1***	_____
Electives	5	_____
TOTAL	26.5	_____

*1/2 unit of fitness credit may be earned by playing two sports during one school year OR a sport for all 4 years. The remaining 1/2 unit needed to graduate must be in the form of a class.
*Physical Science is an Oakbrook prerequisite for Chemistry and Physics but does not count toward the three required lab sciences required for graduation. Two of the sciences must be in different fields from chemistry, biology, and physics.
** College entrance will require at least two units of the same foreign language (Clemson University and other competitive schools require three.)
*** Must be appreciation, performance, or history.