

Avondale Academy
2015 - 2016
Curriculum
Guide



A Tradition of Academic Excellence

Avondale Academy

Curriculum Guide

1435 W. Auburn Road
Rochester Hills, Michigan 48309
Phone 248.537.6600 Fax 248.537.6605
www.avondale.k12.mi.us School Code 992-019

The mission of Avondale Academy is to work cooperatively with parents and the surrounding communities to create a safe, student-centered environment.

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Dear Academy Student,

This curriculum guide has been developed to aid you and your parents in being successful during your high school years. Your schedule of classes will be designed with the best interest towards graduation in mind, so please be aware that class requests may be denied.

Carefully consider your long-range academic and career goals in addition to the graduation requirements as you make your requests. As you progress through the Academy, it is important to discuss your interests and aspirations with your parents, teachers, and counselor.

Once your yearly schedule of classes has been finalized, please do your best to put forth the time and effort that will guarantee your success. We stand ready to assist you in every way possible.

Best wishes for a successful school year.

Sincerely,

Taylor Chapman, Principal

AVONDALE ACADEMY

Graduation Requirements

General Information

To qualify for graduation, each student shall be governed by *all* of the requirements established by the Board of Education and the State of Michigan.

REQUIRED CREDITS/COURSES

Students must earn 21 credits during high school, including: English (4), Math (4), Science (3), Social Studies (3), Health (.5), Physical Education (.5) Visual, Performing, or Applied Arts (1), World Language (2), ACT Preparatory (1), and Electives (2). These requirements are in compliance with the State of Michigan Merit Curriculum.

MICHIGAN MERIT CURRICULUM

Avondale Academy's curriculum is in compliance with **Michigan Merit Curriculum Requirements**. Students may complete some requirements by taking classes in the middle school that are identical in curriculum to those offered at Avondale Academy, or they may test out of a required class. For example, if a student successfully completes Algebra I at the middle school, this class will fulfill the math requirements of the Michigan Merit Curriculum, but **will not** count toward the 21 High School Graduation Credits. Other requirements of the Michigan Merit Curriculum include:

- **COMPLETED CORE CURRICULUM**—English (4), Math (4), Science (3), Social Studies (3), Health and Physical Education (1) Visual, Performing, or Applied Arts (1), World Language (2).
- **A 20-HOUR ONLINE LEARNING EXPERIENCE**, which will be completed within the curriculum.

MICHIGAN MERIT EXAMINATION

After achieving junior status (11 credits), students must take the **Michigan Merit Exam (MME)** to graduate.

PLANNING

Students and parents should carefully select courses that are aligned with graduation requirements, educational and career goals, and teacher/counselor recommendations.

GRADE LEVELS

Grade levels are determined by the credits earned. When students earn enough credits to be promoted, the grade level will be updated in June of that school year.

9th Grade:	Earn 0 to 5.25 Credits
10th Grade:	Earn 5.5 to 10.75 Credits
11th Grade:	Earn 11 to 16.25 Credits
12th Grade:	Earn 16.5 and above

STANDARDS

The Academy principal will follow the established policies of the State of Michigan and the North Central Association of Secondary Schools and Colleges for individual students who seek modification of these requirements.

LOSS OF CREDIT

There are three ways students may lose credit:

Failure to Meet Class Requirements – Students earning a grade lower than a D- (60%) will not receive credit.

Failure to Take a Final Exam – Students who do not take the cumulative quarter exam will not receive credit.

Academic Misconduct – Students who are accused of cheating may be forced to undergo the due process of the Avondale School District and may ultimately lose credit.

EARNING CREDIT

Avondale Academy's school year is sectioned into four – (9) nine week long Quarters. Students are assigned six classes each Quarter, each worth .25 credits. Students have the opportunity to earn 1.5 credits at the end of each Quarter and a total of 6 credits each school year.

HS CREDIT FOR 8th GRADE CLASSES

Students who take courses in middle school that have a curriculum that is identical to a course at the Academy (such as Algebra I, Spanish, or other World Language) – as well as 8th graders who take high school courses – will receive high school credit on their transcripts. The grades earned will be included in the high school GPA unless a student has not been successful in 8th grade and repeats a course in high school. If that happens, the 8th grade course will be removed from the transcript. **Students must still earn 21 credits in grades 9-12.**

FROM STATE UNIVERSITIES

Universities recognize that some students may not be able to complete all requirements. Students may still be considered for admission and are encouraged to apply to the University of their Choice. Each university has final authority for admissions decisions based on the level of achievement required and other indicators of potential for academic success. Students should plan their courses to include at least **four** academic subjects per year. Generally, to be admitted to a four-year college, students must maintain at least a 2.8 average. After admission, colleges may revoke admission based on fewer academic courses and/or lower grades.

SELECTING CLASSES

Your Course Catalog Can Help You...

- Review your progress
- Plan your classes each year
- Find out about special programs
- Understand school policies

Your Counselor Can Help You...

- Recognize your aptitudes
- Understand your abilities
- Identify your interests
- Plan classes that will lead to your goals for/after graduation

Consider Interests...

- As you plan your classes, refer to Career Pathways recommendations for you after taking an interested inventory/assessment in Career Cruising. (www.careercruising.com) As you look at the career options that most interest you, try to take classes listed that will help you prepare for a future in your prepared pathway.

Set Goals...

- We expect students to set long-range goals with their counselor. Teachers and administrators are also eager to talk with students about their future plans.

Explore Colleges...

- For students choosing to continue their education after graduation, representatives from various colleges, universities, trade schools, and branches of the military will meet with interested students during the fall and spring of each year to explain their programs and entrance requirements and to outline the admissions process.

Prepare for Employment...

- When a student applies or interviews for a job, college, or scholarship, he/she can request a Job Hunting Handbook from the counselor, which has great tips to help gather information requested on applications, develop résumés, prepare for interviews, and follow-up to potential employers.

Michigan Merit Curriculum High School Graduation Requirements

ENGLISH (4 Credits)

- ___ English 9 (1 Credit)
- ___ English 10 (1 Credit)
- ___ English 11 (1 Credit)
- ___ English 12 (1 Credit)

MATH (4 High School Credits)

- ___ Algebra I (1 Credit)
- ___ Geometry (1 Credit)
- ___ Algebra II (1 Credit)
- ___ Math of Math Related Credit (1 Credit)

SCIENCE (3 Credits)

- ___ Biology (1 Credit)
- ___ Chemistry OR Physics (1 Credit)
- ___ 3rd Science (1 Credit) (OR CTE Program Completion)

SOCIAL STUDIES (3 Credits)

- ___ United States History (1 Credit)
- ___ Civics (.5 Credit)
- ___ Economics (.5 Credit)
- ___ World History (1 Credit)

HEALTH/PHYSICAL EDUCATION (1 Credit)

- ___ Health (.5 Credit)
- ___ Physical Education (.5 Credit)

VISUAL, PERFORMING, OR APPLIED ARTS (1 Credit)

- ___ Visual, Performing, or Applied Arts Elective (1 Credit)

SAT PREPARATORY (Academy Requirement) (1 Credit)

- ___ Academic Success Strategies (1 Credit)

WORLD LANGUAGE (2 Credits)

- ___ Spanish I (1 Credit)
- ___ Spanish II (1 Credit)(OR CTE Program Completion OR Additional Visual, Performing, or Applied Arts Elective)

ELECTIVES

- ___ 2 Credits

MICHIGAN MERIT EXAM (JUNIOR YEAR, REQUIRED)

TOTAL CREDITS - 21 Credits Required

Supplementary Credit

TESTING OUT

Michigan law provides opportunities for high school students to demonstrate content mastery of a particular course by successfully completing and scoring well on a single test or series of tests created by the subject area department. These tests will be given **twice** each school year at the Academy. Students are required to satisfy the Michigan Merit Curriculum (MMC). This legislation mandates that these students receive high school graduation credits for “testing out” of a course at a level of content mastery determined by the subject area department.

CONTENT MASTERY

The following are the levels of content mastery for testing out:

- **Scores below 77%** will not demonstrate proficiency and students will be required to take the course for high school graduation credit.
- **Scores between 77% and 89%** will demonstrate proficiency and students will have fulfilled the requirement for course sequence. *High school graduation credit will not be granted.*
- **Scores 90% of higher** will demonstrate content mastery of the course and *students will be given credit for that course.*

TESTOUT PROCEDURE AND DEADLINES

- The intent of “testing-out” is to provide exceptionally able students options beyond what they might have if required to take courses in which they have already mastered the material. Students **may not** take a test for a class they have already taken and failed.
- Students may attempt test-outs twice each year, starting in August prior to 9th grade. Applications for testing out must be completed and turned into the high school counseling office by **May 1** (for the August test-out) and/or **November 1** (for the December test-out). They are available in the guidance office or online.
- Teachers *will not* provide any instruction to prepare students for these tests. Each department *will* provide a syllabus so that students know what the test will cover and any additional items (demonstrations, research papers, portfolios, etc.) that will be required as part of the comprehensive evaluation. The syllabus will include a list of reading materials and a copy of the curriculum.
- Study materials will also be available for student use, and students will be contacted by the Guidance Office when they can pick up these materials. Students **must** return all school materials on the day of the test-out exam.
- Students will be notified, by mail, regarding the test-out schedule. The tests will be scheduled during the second full week of August and December. The

notification will include exact time and location for the exams.

- Test-out exams will be scored as soon as possible after the test date. Students will be notified by mail as soon as results are available. If a student passes a test-out exam, he/she can make an appointment to see the counselor to arrange a schedule change.
- The maximum number of tests a student may request each test session is two.
- To test out of Chemistry Essentials and Physics Essentials, both tests must be passed at the percentage stated above for a student to move into Biology.

DUAL ENROLLMENT

Dual Enrollment is available for qualified students who are interested in taking a class at a local college or university that is not offered at the high school. This provides an opportunity for students to explore subjects beyond the scope of the Avondale Academy curriculum or to advance in a subject area in which they have excelled.

A student who has dual enrollment as an addition to their 6-period school day will take a class at a local college, and the school district will pay a portion of the tuition. To be eligible for dual enrollment, the student must have received qualifying scores on standardized tests. If eligible:

1. Student checks the college’s website for class schedule as well as registration dates and times.
2. The student applies to the college (OCC, OU, Baker, etc.) by submitting an application, signed by the student’s counselor at least four weeks ahead of registration. The counselor provides a letter and calculation sheet for the student to submit to the college or university, verifying that Avondale School District agrees to pay the required portion of the student’s tuition.
3. The student registers for class(es) during the appropriate registration times and submits the letter and calculation sheet.
4. The student submits a copy of the course registration and the detail of costs (tuition and fees) to the counselor. The college will invoice Avondale School District for the approved amount. The balance (if any) will be charged to the student.
5. The student submits a grade to verify course completion at the end of the semester. It may be possible for the student to earn high school credit as well. The student should discuss this with his/her counselor, as many universities will not accept transfer credit if a student has claimed the credit on the high school transcript.

Career Pathways

www.careercruising.com • Username: Avondale • Password: Academy

Michigan Career Pathways

Career Pathways are groups or families of occupations that share common characteristics such as knowledge requirements, skill sets, and/or goals. Searching by pathway can help you focus your career goals. In Career Cruising, on the Michigan Career Pathways page, click on the name of a pathway to see a list of occupation profiles that are in that particular grouping. Click on a career title to view details about that occupation. Use the blue buttons on the left side of the results page to filter the list of careers by education level. When you complete activities such as the Career Matchmaker it also suggests two pathways. You can also note pathways patterns if you search by careers.

Career Cruising also has links to the 16 National Career Clusters. You can click on the blue 16 Career Clusters button on the Explore Careers page to learn more about each cluster. Each cluster profile contains a brief description, links to the profiles of the specific pathways related to that cluster, links to occupation profiles in Career Cruising related to that cluster, information on related college majors, and a four-year sample high school course plan designed to help you prepare for post-secondary education in the cluster or pathway of your choice.

ARTS AND COMMUNICATION

Careers related to the humanities, the performing, visual, literary, and media arts. Examples: musician/composer, graphic designer, architect, interior designer, fashion designer, journalism, foreign service, public relations, commercial artist, TV or film producer, advertising designer, technical illustrator/writer, web site designer, dancer.

Are you a creative thinker? Are you imaginative, innovative, and original? Do you like to communicate ideas? Do you like making crafts, drawing, playing a musical instrument, taking photos, or writing stories? This may be the career path for you!

BUSINESS, MANAGEMENT, MARKETING, AND TECHNOLOGY

Careers related to all aspects of business including accounting, business administration, finance, information processing, and marketing. Examples: bookkeeper, insurance agent, financial manager, budget analyst, marketing and sales development, labor relations, manager, entrepreneur, loan officer, legal secretary, hotel manager, computer programmer, travel agent.

Do you enjoy being a leader, organizing people, planning activities, and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? Would you enjoy balancing a checkbook, following the stock market, holding an office in a club, or surfing the Internet? This may be your career path!

ENGINEERING/MANUFACTURING AND INDUSTRIAL TECHNOLOGY

Careers related to the various technologies necessary to design, develop, install and maintain physical systems. Examples: construction, computer analyst, architect, mechanic/technician, information specialist and packaging, electrical and computer engineers, chemical engineer, geographer, surveyor, plumber, electrician, air traffic controller.

Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing building structures? Are you curious about how things work? Would you enjoy painting a house, repairing cars, wiring electrical circuits, or woodworking? This may be the career path for you!

HEALTH SCIENCES

Careers related to the promotion of health as well as the treatment of injuries and disease. Examples: dental assistant, dental hygienist, veterinary technician, respiratory therapist, physical therapist, medical office clerk, pharmacy technician, nurse, chemist, pharmacist, physician/surgeon.

Do you like to care for people or animals who are sick or help them stay well? Are you interested in diseases and in how the body works? Do you enjoy reading about science and medicine? Would it be fun to learn first aid or volunteer at a hospital or veterinary clinic? This may be your career path!

HUMAN SERVICES

Careers in child care, civil service, education, hospitality, and the social services. Examples: flight attendant, child care worker, legal assistant, police officer, lawyer, teacher, counselor, human resource manager, chef, customer service, police detective, social worker, librarian, firefighter.

Are you friendly, open, understanding, and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for other people? Do you like to help friends with family problems? Do you like reading, storytelling, traveling, or tutoring young children? This could be your career path!

NATURAL RESOURCES AND AGRISCIENCE

Careers related to natural resources, agriculture, and the environment. Examples: landscaper, florist, horticulturist, golf course manager, naturalist, botanist, marine biologist, farmer, landscaper, conservation agent, forester.

Are you a nature lover? Are you practical, curious about the physical world, and interested in plants and animals? Do you enjoy hunting or fishing? Do you like to garden or mow the lawn? Are you interested in protecting the environment? This could be your career path!

Avondale Academy Courses Offered

COURSE	PREREQUISITE	GRADE LEVEL	LENGTH	LIVE	ONLINE
CAREER AND TECHNOLOGY EDUCATION					
Audio Engineering	None	11 12	Semester		X
Career Planning and Development	None	10 11 12	Semester		X
Computer Applications - Office 2007	None	10 11 12	Semester		X
Consumer Skills	None	10 11 12	Semester		X
Computer Literacy	None	11 12	Semester		X
Computer Science	None	11 12	Year		X
Flash Animation	None	11 12	Semester		X
Flash Game Development	None	11 12	Semester		X
Game Design	None	11 12	Semester		X
Green Design and Technology	None	11 12	Semester		X
Introduction to Business	None	11 12	Year		X
Intro to Entrepreneurship	None	11 12	Year		X
Intro to Information Technology	None	11 12	Year		X
Introduction to Marketing	None	11 12	Year		X
Personal Finance^	None	11 12	Semester		X
ENGLISH					
Common Core English 9	None	9	Year	X	X
Common Core English 10	English 9	10	Year	X	X
Common Core English 11	English 10	11	Year	X	X
Common Core English 12	English 11	12	Year	X	X
Literacy and Comprehension	None	9 10			
IDEA Writing	None	10 11 12	Semester		X
Intro to Communication and Speech	None	10 11 12	Semester		X
FINE ARTS					
2D Art#	None	10 11 12	Year	X	
Intro to Art#	None	10 11 12	Semester		X
Art History#	None	10 11 12	Semester		X
3D Art#	None	11 12	Year		X
Digital Art#	None	11 12	Year		X
Image Design and Editing#	None	11 12	Semester		X
WORLD LANGUAGE					
Spanish I	None	9 10 11 12	Year	X	X
Spanish II	Spanish I	9 10 11 12	Year	X	X
MATHEMATICS					
Common Core Algebra I	None	9	Year	X	X
Common Core Geometry	Algebra I	9 10	Year	X	X
Common Core Algebra II	Algebra I and Geometry	9 10 11	Year	TBD	X
Common Core Algebra II Year 1	Algebra I and Geometry	9 10 11	Year	X	X
Common Core Algebra II Year 2^	Algebra I, Geometry, Algebra II Yr 1	10 11	Year	X	X
Mathematical Models^	Algebra I and Geometry	10 11 12	Year		X
Financial Math^	Algebra I and Geometry	10 11 12	Year		X
Trigonometry^	Algebra II	10 11 12	Semester		X
Pre-Calculus^	Trigonometry	11 12	Year		X

Avondale Academy Courses Offered

COURSE	PREREQUISITE	GRADE LEVEL	LENGTH	LIVE	ONLINE
PHYSICAL EDUCATION AND HEALTH					
Health	None	9 10 11 12	Semester		X
Lifetime Fitness	Physical Education	10 11 12	Year	X	
Foundations of Personal Wellness	None	9 10 11 12	Year		X
Lifetime Fitness	None	9 10 11 12	Semester		X
SCIENCE					
Chemistry/Physics Essentials	None	9 10 11 12	Year		X
Biology	None	9 10	Year	X	X
Chemistry	Algebra I	10 11 12	Year	X	X
Anatomy and Physiology	Biology	11 12	Year	X	
Physics [^]	Chemistry/Physics Essentials, Geometry	11 12	Year		X
Environmental Science	None	9 10	Year		X
Introduction to Health Science	Chemistry/Physics Essentials	11 12	Year		X
SOCIAL STUDIES					
U.S. History	None	9	Year	X	X
Civics	None	10	Semester	X	X
Economics	None	10	Semester	X	X
World History	None	11	Year	X	X
Human Geography	None	11 12	Year		X
Sociology	None	11 12	Semester		X
Psychology	None	11 12	Year		X
MISCELLANEOUS					
Academic Success Strategies	None	11 12	Year	X	
SAT Tutor	None	11 12	Year		X
Academic Center	None	9 10 11 12	Year	X	
# Satisfies the Visual, Performing & Applied Arts requirement					
[^] Satisfies the 4 th math or math-related elective requirement					

Avondale Academy Graduation Plan

Student Name _____

Grade _____

Class of 2016-18

9 th Grade		10 th Grade	
Class	Quarters		Quarters
Algebra I	Q1 Q2 Q3 Q4	Geometry	Q1 Q2 Q3 Q4
English 9	Q1 Q2 Q3 Q4	English 10	Q1 Q2 Q3 Q4
Chem/Physics Essentials	Q1 Q2 Q3 Q4	Biology	Q1 Q2 Q3 Q4
United States History	Q1 Q2 Q3 Q4	Civics/Economics	Q1 Q2 Q3 Q4
Spanish I	Q1 Q2 Q3 Q4	Spanish II	Q1 Q2 Q3 Q4
Physical Ed/Health	Q1 Q2 Q3 Q4	Art	Q1 Q2 Q3 Q4
11 th Grade		12 th Grade	
Class	Quarters		Quarters
Algebra II	Q1 Q2 Q3 Q4	4 th Math/ Algebra II Year 2	Q1 Q2 Q3 Q4
English 11	Q1 Q2 Q3 Q4	English 12	Q1 Q2 Q3 Q4
Chemistry	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4
World History	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4
Academic Succ. Strategies	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4
Elective	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4

Class of 2019

9 th Grade		10 th Grade	
Class	Quarters		Quarters
Algebra I	Q1 Q2 Q3 Q4	Geometry	Q1 Q2 Q3 Q4
English 9	Q1 Q2 Q3 Q4	English 10	Q1 Q2 Q3 Q4
Biology	Q1 Q2 Q3 Q4	Chemistry	Q1 Q2 Q3 Q4
United States History	Q1 Q2 Q3 Q4	Civics/Economics	Q1 Q2 Q3 Q4
Spanish I	Q1 Q2 Q3 Q4	Spanish II	Q1 Q2 Q3 Q4
Algebra Skills	Q1 Q2 Q3 Q4	Art	Q1 Q2 Q3 Q4
11 th Grade		12 th Grade	
Class	Quarters		Quarters
Algebra II	Q1 Q2 Q3 Q4	4 th Math	Q1 Q2 Q3 Q4
English 11	Q1 Q2 Q3 Q4	English 12	Q1 Q2 Q3 Q4
3 rd Science	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4
World History	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4
Academic Succ. Strategies	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4
Physical Education/Health	Q1 Q2 Q3 Q4	Elective	Q1 Q2 Q3 Q4

Avondale Academy Live Course Offerings



MATH

Common Core Algebra I
Common Core Geometry
Common Core Algebra II Year 2
Common Core Algebra II

SCIENCE

Biology
Chemistry

ENGLISH

Common Core Language Arts 9
Common Core Language Arts 10
Common Core Language Arts 11
Common Core Language Arts 12

SOCIAL STUDIES

U.S. History
World History
Civics
Economics

WORLD LANGUAGE

Spanish I
Spanish II

PHYSICAL EDUCATION

Weight Lifting

FINE ARTS

2-D Art

ENGLISH

COMMON CORE ENGLISH 9

Year

Prerequisite: None

This course emphasizes process writing and grammar. It will also cover study skills, organizational skills, thinking skills. The goal for English Language Arts Grade 9 is to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts Grade 9, students will be introduced to the various genres of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Ninth graders will connect with and respond to texts by analyzing relationships within and across families, communities, societies, governments, and economies. Through the lens of Inter-Relationships and Self-Reliance, they will consider how they build relationships, how their relationships impact others, and their responsibility to society.

COMMON CORE ENGLISH 10

Year

Prerequisite: English 9

The goal for English Language Arts 10 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts 10, students will add to the list of various genres of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Tenth graders will connect with and respond to texts through critical response and stance. They will learn to evaluate for validity and quality, to balance and expand their perspectives promoting empathy, social action and appropriate use of power. Critical Response and Stance offers students the lens to assess and modify their beliefs, views of the world, and how they have power to impact them.

COMMON CORE ENGLISH 11

Year

Prerequisite: English 10

This course includes additional study of literature and composition; additionally, Michigan Merit Exam skills and test-taking strategies are emphasized. Representative novels, short stories, plays, and poetry provide the basis for literature study.

COMMON CORE ENGLISH 12

Year

Prerequisite: English 11

This course includes additional study of literature and composition. Representative novels, short stories, plays, and poetry provide the basis for literature study.

MATHEMATICS

ALGEBRA SKILLS

Year

Prerequisite: None

This is a supplemental math course that may be assigned in addition to their current math course offering. This class is prescriptive by nature and will use technology to help students work at a pace that is suited to their skill level.

ALGEBRA I

Year

Prerequisite: None

This algebra course covers the study of real numbers, balancing of an equation, graphing of an equation on the coordinate plane, graphing parabolas, the study of exponents and radicals, solving systems of equations with two or more variables, and various operations within the study of quadratic equations.

GEOMETRY

Year

Prerequisite: Algebra I

This course covers topics of Euclidean geometry in two and three dimensions. Students will study size, shape, and position of figures, including lengths, areas, and volumes. The course develops the relationships of points, lines, angles, surfaces, and solids, and gives strong attention to measurement formulas. Logic, proof, coordinates, and transformations are integrated throughout the course.

ALGEBRA II

Year

Prerequisite: Algebra I and Geometry

This second course in algebra covers units similar to those in Algebra I but in more depth and at an increased pace including operations with real numbers, quadratic equations and systems, logarithms, irrational numbers, complex numbers, conic sections, and sequences.

ALGEBRA II YEAR 1

Year

Prerequisite: Algebra I and Geometry; Prerequisite: Department Placement based on Prior Math Grades and Standardized Test Scores.

The Algebra 2 (Year 1 and Year 2) curriculum covers the same material as the Algebra II curriculum, but it is covered over two years. In the first year students study the use of matrices to solve equations, rational expression and equations, trigonometric function on a unit circle, and exponential and logarithmic functions.

ALGEBRA II YEAR 2

Year

Prerequisite: Algebra I and Geometry; Department Placement based on Prior Math Grades and Standardized Test Scores.

The Algebra 2 (Year 1 and Year 2) curriculum covers the same material as the Algebra II curriculum, but it is covered over two years. Algebra 2 – Year 2 satisfies the senior math class requirement. In the second year students study univariate data and distributions, sequence and series, quadratic relations and conic sections, and probability.

SCIENCE

BIOLOGY

Year

Prerequisite: Chemistry Essentials, Physics Essentials

Biology is a yearlong course separated into Micro and Macro Biology. Semester one, Micro Biology covers the following basic topics: cell structure and function, heredity (Mendelian Genetics), and living processes of plants and animals. Semester two, Macro Biology covers the following basic topics: ecology, human disease, body systems, and evolution. Dissection will be performed as it fits into the unit of study.

CHEMISTRY

Year

Prerequisite: Chemistry Essentials, Physics Essentials, Algebra I

Chemistry is a foundation course in the theory of matter and its structure and reactions. Concepts are clarified with mathematical explanations and problems having measurable results. The language of chemistry through formula writing and equation reactions is fundamental to the understanding of chemical theory. Students study atomic and molecular structure including bonding and the periodic nature of elements. Laboratory experiences, writing and reporting are part of this study.

ANATOMY AND PHYSIOLOGY

Year

Prerequisite: C in Biology, Teacher Recommendation.

Anatomy and Physiology introduces basic concepts and principles important to an understanding of the human body. This course will present essential information dealing with the structure and function of the human. Those pursuing careers in the medical field will acquire basic information to be integrated into future classes. Those seeking careers outside the biomedical field will gain knowledge and understanding of the human body that will prove valuable for life and health. Laboratory experiences, writing and reporting will be incorporated into evaluations.

SOCIAL STUDIES

UNITED STATES HISTORY

Year

Prerequisite: None

This course begins with the close of the Civil War and moves in chronological order through modern day United States. Major themes covered are Reconstruction, Westward Expansion, Industrialization, Urbanization, Immigration, the U.S. as an evolving world power, the United States in two World Wars, the Great Depression, the Cold War, the economic and social development of U.S. society after World War II, the Civil Rights Movement, the Korean and

Vietnam Wars, social change during the Vietnam Era, post-Cold War challenges at home and abroad, and the New Global Economy.

CIVICS

Semester

Prerequisite: None

This one-semester course deepens students' knowledge of government, with a particular focus on national, state, and local government in America. Five questions guide students' study: What are civic life, politics, and government? What are the origins and foundations of the American political system? How does the government established by the Constitution function to embody the purposes, values, and principles of American constitutional democracy? What is the relationship of the United States to other nations and its role in world affairs? What are the roles of citizens in American society? Students engage in investigations, analysis, and arguments about civic life in the United States and the role of the United States in the world.

ECONOMICS

Semester

Prerequisite: None

This one-semester course builds economic literacy in students. The overarching problem of scarcity, unlimited human wants pursuing limited resources, is a focal point of the course. Students deepen their prior knowledge of basic economic concepts and apply them to national and international economic systems and problems as a whole. In addition to their study of macroeconomics, students study how interactions of buyers and sellers impact prices and supplies, as well as the role of tradeoffs and incentives in consumer and business decisions.

WORLD HISTORY

Year

Prerequisite: None

This full year course introduces students to the study of world history in order to construct a common memory of where humankind has been and what accounts for present circumstances. Building upon foundations from middle school social studies, this course begins with a period of expanding and intensified hemispheric interactions (circa 300 C.E.) and continues to the present. Within each historical era, students work at three interconnected spatial scales to study world history through several lenses: global, interregional, and regional. Through a global and comparative approach, students examine worldwide events, processes, and interactions among the world's people, cultures, societies, and environment.

WORLD LANGUAGE

SPANISH I

Year

Prerequisite: None

This course will focus on developing the four language skills of speaking, listening, reading and writing. Students will engage in a variety of activities to practice and promote language learning. This course includes an overview of the geography and other cultural insights of the Spanish-speaking world with focus on Mexico.

SPANISH II

Year

Prerequisite: Spanish I

Students will continue to work toward proficiency in the four language skills: listening, speaking, reading and writing. Study will examine the cultural practices of the Spanish speaking world with a focus on South America and Central America.

FINE ARTS

2-D DESIGN

Year

Prerequisite: None

This class is an introduction in the area of two-dimensional art. Units include design problems that address the areas of drawing, painting and collage. Understanding and manipulation of the elements & principles of design will also be explored. No previous experience is required.

PHYSICAL EDUCATION AND HEALTH

WEIGHT TRAINING

Year

Prerequisite: Physical Education

This course is designed to improve physical strength, endurance and muscle mass through a variety of weight-lifting exercises. Weight lifting will consist of four days a week with an aerobic activity on the fifth day. Nutrition and living a healthy lifestyle may periodically be introduced.

ELECTIVE

ACADEMIC SEMINAR

Year

Prerequisite: Counselor approval, must be scheduled with an online class.

Academic Seminar provides a location and an atmosphere for study and assisted learning. The goal of the Academic Seminar is to provide the opportunity for students to complete academic work, to access teachers for grade improvement, to make up tests, and to gain assistance to improve their understanding of various subject matter. The computer lab is staffed by certified high school level teachers. Students are expected to bring academic materials with them every day to do their work in the Academic Seminar. Computers, including Internet access, are available for student use in the Academic Seminar. The Academic Seminar is offered each quarter. Students may receive 1/8 credit per quarter.

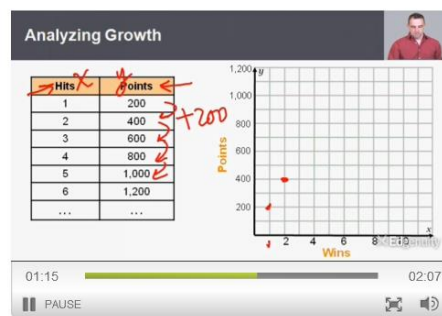
Avondale Academy Virtual School



- Avondale Academy offers over 50 online courses through Edgenuity (accredited by AdvancED).
- Edgenuity courses feature rigorous, standards-based instruction and powerful interactive tools that support learning. Engaging multimedia and real-world applications help ensure students build content knowledge and essential skills.
- During the school day students have the opportunity to take a course online in the computer lab with a certified teacher. Edgenuity offers Common Core Mathematics and English courses as well as Social Studies, Science and Electives. All elective classes are offered online.
- Many Career Electives require specific programs, most of which are free, in order to complete the class. All of the programs are available in the Avondale Academy computer lab and the University Center computer lab for students enrolled in the Virtual Program. If you plan to take one of these classes as a virtual student please see your counselor for at-home computer program requirements. Some courses may require a USB drive to save work.
- Edgenuity courses have short interactive lectures, assignments, quizzes, tests, and a cumulative exam. Some courses include journals, labs, or additional projects. Students are required to take notes in each online course and notes are graded by the teacher.

Website:

www.student.education2020.com



EXAMPLE Comparing and Contrasting Texts

Compare and contrast: find similarities and differences

That night someone within me, my other self, told me it was impossible that these atrocities could be committed in the middle of the twentieth century while the world stayed silent.

—All Rivers Run to the Sea, Elie Wiesel

Genre: Memoir

THEN WAS A SELECTION, WITH PEOPLE SENT THOUGH TO THE LEFT, OTHERS TO THE RIGHT.

OLD PEOPLE, WIMPLES WITH STIFF NECKS, AND FORTY, WITHOUT WORK LACES, THE ALL-GROWN-UP THE LEFT.

WE UNDERSTOOD THIS MUST BE VERY BAD.

Genre: Graphic novel

Step 4: Test for the Presence of Polysaccharides

Click each test tube to test for the presence of polysaccharides. Record all color changes in the data table.

COMPLETE

The mystery food sample does not contain polysaccharides because the color of the test tube was not blue/black.

RETRY

Labels: Lugol's Solution, Polysaccharide Mixture, Water, Mystery Food Sample

Avondale Academy Online Course Offerings



MATH

Common Core Algebra I
Common Core Geometry
Common Core Algebra II
Trigonometry
Common Core Pre-Calculus
Financial Math
Mathematical Models

SCIENCE

Physical Science
Biology
Chemistry
Physics
Environmental Science
Introduction to Health Science

ENGLISH

Common Core Language Arts 9
Common Core Language Arts 10
Common Core Language Arts 11
Common Core Language Arts 12
Literacy and Comprehension
IDEA Writing
Intro to Communication and Speech

SOCIAL STUDIES

U.S. History
World History
Government
Economics
Human Geography

ADDITIONAL CORE

Spanish I
Spanish II
Foundations of Personal Wellness
Lifetime Fitness
Health

GENERAL ELECTIVES

Art History
Introduction to Art
Career Planning and Development
Computer Applications - Office 2007
Consumer Skills
Psychology
Sociology

TECHNOLOGY

Computer Literacy
Computer Science
Flash Game Development
Introduction to Information Technology

DIGITAL ARTS

3D Art
Digital Art
Image Design and Editing
Game Design
Audio Engineering
Flash Animation

BUSINESS INOVATIONS

Introduction to Business
Introduction to Marketing
Introduction to Entrepreneurship
Personal Finance
Green Design and Technology

***Plus SAT TUTOR for Math, Reading,
Writing and Science***

ENGLISH • Edgenuity

COMMON CORE ENGLISH 9

Year

Prerequisite: None

Dedicated to creating effective and adaptable readers and writers, this course provides rigorous training in the foundations of English language arts skills and strategies. Using the core foundation, the course expands on and applies traditional concepts to modern, 21st-century demands. Offering practical lessons in techniques such as visualizing, making inferences and predictions, and recognizing organizational patterns in online and offline texts, this course delivers hands-on training in applying the writing process, evaluating essays, and using MLA style and documentation. Over the course of two semesters, interactive grammar lessons will strengthen students' grasp of language and improve writing skills.

COMMON CORE ENGLISH 10

Year

Prerequisite: English 9

Focused on application, the sophomore English course reinforces literary analysis and 21st-century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units meld modeling and application, they also expand on training in media literacy, 21st-century career skills, and the essentials of grammar and vocabulary. Under the guidance of the eWriting software students will also compose descriptive, persuasive, expository, literary analyses, research, narrative, and compare-contrast essays.

COMMON CORE ENGLISH 11

Year

Prerequisite: English 10

This junior-year English course invites students to delve into American literature from early American Indian voices through contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, the centerpieces of this course. While critically reading fiction, poetry, drama and expository nonfiction, students will master the comprehension and literary analysis strategies that the Common Core State Standards require. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students will read a range of short but complex texts. Including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

COMMON CORE ENGLISH 12

Year

Prerequisite: English 9

This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the Modern Period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

IDEA WRITING

Semester

Prerequisite: None

Motivating students in grades 9-12 to become more articulate and effective writers, this one-semester course offers hands-on experience writing personal reflections, definition essays, research essays, persuasive essays, informative essays, and literary analysis essays. Offering targeted lessons on reputable research, effective communication, solid grammar, and compelling style, this one-semester course utilizes the Six Traits of Effective Writing as an overarching framework. Students enrolled in this course develop the skills necessary to evaluate their own writing and articulate and apply writing and researching strategies. In addition, students will get further practice applying the grammatical rules of Standard American English in formal writing.

INTRO TO COMMUNICATION AND SPEECH

Semester

Prerequisite: None

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and

gender differences in the areas of listening and responding. High school students enrolled in this one-semester course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches in the course.

LITERACY AND COMPREHENSION I

Semester

Prerequisite: None

Literacy and Comprehension I is one of two semester-long intervention courses designed to support the development of strategic reading and writing skills. These courses use a thematic and contemporary approach, including high-interest topics to motivate students and expose them to effective instructional principles using diverse content area and real-world texts. Both courses offer an engaging technology-based interface that inspires and challenges students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

LITERACY AND COMPREHENSION II

Semester

Prerequisite: Literacy and Comprehension I

Offering high-interest topics to motivate students who are reading two to three levels below grade, this course works in conjunction with Literacy and Comprehension I to use a thematic and contemporary approach to expose students to effective instructional principles using diverse content area and real-world texts.

MATHEMATICS • Edgenuity

COMMON CORE ALGEBRA I

Year

Prerequisite: None

This course begins with a brief review of what students should already know about linear equations, with a focus on analyzing and explaining the process of solving equations. Students develop a strong foundation in working with linear equations in all forms, extending solution techniques to simple equations with exponents. Students explore functions, including notation, domain and range, multiple representations, and modeling. Through the comparison of linear and exponential function, students contrast the concepts of additive and multiplicative change. Students then apply what they have learned to linear models of data, analyzing scatterplots and using lines of best fit to apply regression techniques. The course closes with an exploration of rational exponents. Quadratic and exponential expressions, and an introduction to non-linear functions, with a heavy emphasis on quadratics.

COMMON CORE GEOMETRY

Year

Prerequisite: Algebra I

This course formalizes what students have learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs, and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right triangle trigonometry, and the Laws of Sines and Cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

COMMON CORE ALGEBRA II

Year

Prerequisite: Algebra I and Geometry

**Can also be taken over two years

This course focuses on the four critical areas of the Common Core model pathways for Algebra II: functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students will make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As

students refine and expand their algebraic skills, they will draw analogies between the operations and field properties of real numbers and those of complex numbers and algebraic expressions. The Common Core practice standards are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

TRIGONOMETRY

Semester

Prerequisite: Algebra II

In this one-semester course, students use their geometry and algebra skills to begin their study of trigonometry. Students will be required to express understanding using qualitative, quantitative, algebraic, and graphing skills. This course begins with a quick overview of right triangle relationships before introducing trigonometric functions and their applications. Students explore angles and radian measures, circular trigonometry, and the unit circle. Students extend their understanding to trigonometric graphs, including the effects of translations and the inverses of trigonometric functions. This leads to the Laws of Sines and Cosines, followed by an in-depth exploration of trigonometric identities and applications. This course ends with an introduction to the polar coordinate system, complex numbers, and DeMoivre's Theorem.

COMMON CORE PRECALCULUS

Year

Prerequisite: Algebra II

Exploring the relationship between advanced algebra topics and trigonometry, Precalculus is an informative introduction to calculus that challenges students to discover the nature of graphs, nonlinear systems, and polynomial and rational functions. With an emphasis on mathematical reasoning and argument, this advanced course scaffolds rigorous content with clear instruction and an array of scaffolds for learning, providing students with a deep understanding of topics such as matrices, functions, graphing, logarithms, vectors, and conics. The course concludes with a brief introduction to calculus that exposes students to limits, continuity, derivatives, and the Fundamental Theorem of Calculus.

MATHEMATICAL MODELS WITH APPLICATIONS

Year

Prerequisite: Algebra I

Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of this course is to use mathematics as a tool to model real-world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment loan models.

FINANCIAL MATH

Year

Prerequisite: Algebra I

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. This course offers mastery of math skills sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

SCIENCE • Edgenuity

PHYSICAL SCIENCE

Year

Prerequisite: None

Encompassing the branch of science that studies nonliving systems. Physical Science is an exciting course that inspires students to explore key concepts and theories, each of which explains and/or models a particular aspect of the behavior of nature. Students enrolled in this two-semester course examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects these phenomena exhibit on the planet. A cumulative study of how each of these concepts elicits reactions across the solar system rounds out this dynamic course.

BIOLOGY

Year

Prerequisite: Physical Science

This compelling two-semester course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a yearlong course that encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology.

CHEMISTRY

Year

Prerequisite: Physical Science, Algebra I

This rigorous full-year course engages students in the study of the composition, properties, changes and interactions of matter. The course covers the basic concepts of chemistry and includes 18 virtual laboratory experiments that encourage higher-order thinking applications. The components of this course include chemistry and its methods, the composition and properties of matter, changes and interactions of matter, factors affecting the interactions of matter, electrochemistry, organic chemistry, biochemistry, nuclear chemistry, mathematical applications, and applications of chemistry in the real world.

PHYSICS

Year

Prerequisite: Physical Science, Geometry

Combining scientific inquiring with advanced mathematics, Physics is a stimulating, two-semester high school-level course that will challenge students to understand and explain how energy, matter, and motion are all related. Engaging lessons introduce theories and experiments and encourage students to develop the knowledge and understanding necessary to support conclusions with numerical results. Inspiring students to relate knowledge to real-world applications, the course connects basic principles to more complex ideas in many fascinating areas: thermal energy, vibrations and waves, light and refraction, sound, electricity, and magnetism.

ENVIRONMENTAL SCIENCE

Year

Prerequisite: None

Environmental science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many different aspects of the field: ecology, the biosphere, land, forests, and soil, water, energy, and resources and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

SOCIAL STUDIES • Edgenuity

U.S. HISTORY

Year

Prerequisite: None

U.S. History is a yearlong course that dynamically explores the people, places, and events that shaped early United States history. This course stretches from the careful examination of the defining moments that shaped the nation of today. Students begin by exploring the colonization of the New World and examining the foundations of colonial society. As they study the early history of the United States, students will learn critical-thinking skills by examining the constitutional foundations of U.S. government. Recurring themes such as territorial expansion, the rise of industrialization, and the significance of slavery will be examined in the context of how these issues contributed to the Civil War and Reconstruction.

GOVERNMENT

Semester

Prerequisite: None

Providing students with the opportunity to learn about the historical events, philosophers, and topical issues that helped create the democratic foundations of this nation. Government is an engaging one-semester course that will introduce high school students to the Founding Fathers and expose them to the ideas that shaped the nation. Students will identify important political leaders and trace the development and organization of federal, state, and local government. In addition, students will explain the political process and analyze the United States' role as a global, political, and economic participant. The course specifically targets the philosophies and foundations of the United States government, the organization of the branches of government, government on a state and local level,

and civil liberties and laws. Full of timely and interesting content, this course will inspire students to be more informed citizens and equip them to understand how the United States compares economically and politically on a global scale.

ECONOMICS

Semester

Prerequisite: None

Presenting timely and engaging content, this course provides high school students with an understanding of the principles of economics. As they become familiar with how markets work, students interact with lessons to apply the key microeconomic concepts of supply and demand as well as the role of prices. This one-semester course targets important aspects of the world economy, including international trade and global economic challenges, and encourages students to apply the economic way of thinking to a variety of situations relevant to their everyday lives.

WORLD HISTORY

Year

Prerequisite: None

Beginning with topics from prehistory and culminating in the events of the 21st century. World History provides interactive course content that will challenge high school students to learn about the political, economic, and social aspects of world history. This highly engaging, two-semester course encourages students to explore the major revolutions and social movements that have influenced different nations and eventually spread throughout the world. During this course, students will be exposed to a variety of pressing issues that have created opportunities for both conflict and cooperation in the modern world.

HUMAN GEOGRAPHY

Year

Prerequisite: None

Examining current global issues that impact our world today, this course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. Divided into two semesters, this high school-level course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. Offering interactive content that will grow students' understanding of the development of modern civilization and human systems – from the agricultural revolution to the technological revolution – this course encourages students to analyze economic trends as well as compare global markets and urban environments.

WORLD LANGUAGES • Edgenuity

SPANISH I

Year

Prerequisite: None

Students begin their introduction to high school Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

SPANISH II

Year

Prerequisite: Spanish I

High school students continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish-speaking areas in Europe and the Americas, and assessments.

PHYSICAL EDUCATION/HEALTH • Edgenuity

FOUNDATIONS OF PERSONAL WELLNESS

Year

Prerequisite: None

Foundations of Personal Wellness is a comprehensive course that explores all aspects of wellness. Offered as a two-

semester course designed for high school students, this course uses pedagogical planning to ensure that students explore fitness and physical health that encourages students to learn about the nature of social interactions and how to plan a healthy lifestyle.

LIFETIME FITNESS

Semester

Prerequisite: None

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students with the skills they need to achieve lifetime fitness. Throughout this one-semester course, students assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design fitness programs to meet their individual fitness goals.

HEALTHY LIVING

Semester

Prerequisite: None

Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, this one-semester course provides students with comprehensive information they can use to develop healthy attitudes and behavior patterns. Designed for high school students, this informative and engaging course encourages students to recognize that they have the power to choose healthy behaviors to reduce risks.

VISUAL/FINE ARTS • Edgenuity

INTRODUCTION TO ART

Semester

Prerequisite: None

Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, this one-semester course provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three- dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

ART HISTORY

Semester

Prerequisite: None

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this one-semester course will cover topics including early Medieval and Romanesque art, art in the 12th, 13th, and 14th centuries; 15th-century art in Europe; 16th-century art in Italy; the master artists; high Renaissance and Baroque art; world art, which includes the art of Asia, Africa, the Americas and the Pacific cultures; 18th- and 19th century art in Europe and the Americas; and modern art in Europe and the Americas.

3D ART I - MODELING

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

The 3D Art I – Modeling design course focuses on the fundamental concepts of 3D modeling and explores the basic concepts and skills of 3D animation. Students learn Blender® software to create 3D models such as a house, a creature, an animation of the creature walking, and a landscape terrain. Activities include using points on a grid to create mountains and a color gradient to create a sun and a moon. Students learn 3D space and 3D objects; creating, scaling, and rotating objects, materials and textures; poses and key frames, extruding and mirroring 3D objects; rendering animations; and appending materials, textures, objects, armatures, and animations.

3D ART II - ANIMATION

Semester

Prerequisite: 3D Art I

Course Supplies: Personal USB drive may be needed to save work

The 3D Art II Animation design course focuses on building animation skills including realistic movement and lighting. Students learn the Blender® software workspace and tools; location and rotation properties; scripts; IP

curves; vector handles; rendering and baking animations and simulations; and particle systems and emitters. Activities and projects promote key 3D animation concepts including frames and key frames, squash and stretch, action strips, walk cycles and poses, and trajectories. Students develop the skills needed to design and create animations with an understanding of the skills needed to succeed as professional animators.

DIGITAL ARTS I

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

The Digital Arts I course focuses on building a solid foundation of the basic elements of visual art: line, shape, form, color, value, space, and texture. This course teaches core skills using Inkscape, a free open-source alternative to Adobe® Illustrator®. Topics include learning processes for evaluating artworks, and identifying selected artists' works, styles, and historical periods. Students learn 3D space in a 2D environment; filters, gradients and highlights; and methods of working with color. Students express themselves creatively in original digital drawings and artwork.

DIGITAL ARTS II

Semester

Prerequisite: Digital Arts I

Course Supplies: Personal USB drive may be needed to save work

The Digital Arts II course focuses on the more advanced principles and elements of art and design. By the end of this course, students will have created a unique portfolio of digital artwork, including repeating images to be used as a computer's desktop background, a logo with text, two images scaled proportionally to one another, and a poster image and layout. Projects include creating movement with objects; images emphasized through the use of color, shape, and size and the principles of art including: repetition and pattern, contrast movement and rhythm, proportion and balance, and harmony and unity. Students advance their skills using Inkscape tools and learn new tools such as the Spiral, Bezier, and Paint Bucket Tools.

IMAGE DESIGN AND EDITING

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

The Image Design and Editing course teaches the foundation skills of composition, color, and layout through a series of creative projects. Using the GIMP software program, students create a graphic design portfolio of professional-quality images and advertisements that combine images, color shading, text, and shapes. Activities include working with layers and masks, adding special effects, and using typefaces to create visual impact. By the end of the course, students will have the skills to create and edit images of their own design.

ELECTIVES • Edgenuity

CAREER PLANNING AND DEVELOPMENT

Semester

Prerequisite: None

Introducing high school students to the working world, this course provides the knowledge and insight necessary to compete in today's challenge job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop skills and job search documents needed to enter to workforce, explore the rights of workers and traits of effective employees and address the importance of professionalism and responsibility as careers change and evolve. This one-semester course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio.

PSYCHOLOGY

Year

Prerequisite: None

This two-semester course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field. Course components include an introduction to the history, perspectives, and research of psychology; an understanding of topics such as the biological aspects of psychology, learning, and cognitive development; the stages of human development; aspects of personality and intelligence; the classification and treatment of psychological disorders; and psychological aspects of social interactions.

SOCIOLOGY

Semester

Prerequisite: None

Providing insight into the human dynamics of our diverse society, this is an engaging one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

CONSUMER SKILLS

Semester

Prerequisite: None

This one-semester course focuses on money management including: financial priorities and goals, using a budget and a savings plan; choosing a financial institution, other services of financial institutions, and using bank accounts; credit including: understanding consumer credit, managing personal credit, shopping for a credit card, credit problems and consumer credit legislation. Students will also learn about investments and life insurance, you as the consumer, advertising, shopping skills, planning for groceries, your health including health care delivery system and emergency health care, housing and transportation.

CAREER ELECTIVES • Edgenuity

COMPUTER APPLICATIONS - OFFICE ® 2007

Semester

Prerequisite: None

Offering insight into the suite of products most used by working professionals, this course challenges high school students to become proficient in Microsoft Word®, EXCEL®, PowerPoint®, and Outlook® through engaging lessons and coursework. This one-semester course is designed to provide students with hands-on experience with tasks such as creating flyers, brochures, schedules, presentations, and mail merge.

COMPUTER LITERACY

Semester

Prerequisite: None

The Computer Literacy course focuses on the basic computer skills need to become confident and prepared to use technology at school, at work, and in everyday life. Students learn search engines and web browsers, keyboarding and typing, web-based and email applications, presentations, image editing and spreadsheets for data organization and calculations. The course addresses the writing, formatting, and proofreading of cover letters, works cited pages, and other professional documents.

COMPUTER SCIENCE I

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

Computer Science I introduces students to the basics of computer science through a series of Python® programming projects that encourages creativity and experimentation. Students create a diverse portfolio of projects as they learn commands and functions, values and variables, Graphical User Interface, modular and object-oriented programming, and events and event-driven processes. Students learn loops, debugging techniques and software development processes including iterative and incremental models. Students explore careers in programming, including profile from a wide variety of programming professionals.

COMPUTER SCIENCE II

Semester

Prerequisite: Computer Science I

Course Supplies: Personal USB drive may be needed to save work

The Computer Science II course advances the student's knowledge of Python software and programming skills through a series of complex programming projects that requires creative thinking and problem solving. Students learn arrays and sets, generators and namespaces, loops, packages and libraries, randomness, and file handling. Students also learn to program simple games. Students explore careers in programming, including profiles from a wide variety of programming professionals.

INTRODUCTION TO INFORMATION TECHNOLOGY

Year

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

This course introduces students to the essential technical and professional skills required in the field of information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.

INTRODUCTION TO BUSINESS

Semester

Prerequisite: None

In this one-semester course, students will learn the principles of business using real world examples – learning what it takes to plan and launch a product or service in today’s fast-paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit, the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity and techniques for planning, executing, and marketing a business to respond to that opportunity.

INTRODUCTION TO MARKETING

Year

Prerequisite: None

In this two-semester introductory course sequence, students will learn the fundamentals of marketing using real-world business examples to illustrate what it takes to market a product or service in today’s fast-paced business environment. Students will learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management. In this course, students will begin developing a comprehensive marketing plan for a new business that will be completed in the second semester of the course. This course covers an introduction to economic basics, costs and profit, and different business types; techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society, locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

INTRODUCTION TO ENTREPRENEURSHIP I

Semester

Prerequisite: None

The introduction to Entrepreneurship I course teaches the basics of planning and launching a business. Whether interested in creating a money-making business or a nonprofit to help others, this course provides the core skills needed to succeed. Students learn about real-life teen entrepreneurs, characteristics of successful entrepreneurs, pros and cons of self-employment, and how to attract investors and manage expenses. Students learn how to generate business ideas; create a business plan, mission and vision; and promote and market a company. Topics include exploring factors of business success and failure, core business concepts, economic systems, competition, production, and the global economy.

INTRODUCTION TO ENTREPRENEURSHIP II

Semester

Prerequisite: Introduction to Entrepreneurship I

The Introduction to Entrepreneurship II course advances the skills and key business concepts students need to know to plan and launch a business. Students learn about selling personal visions and goals, sales stages, opportunities and strategies, planning budgeting, and interpersonal communication in the workplace. Topics include financing a business; costs and pricing, accounting; bookkeeping, and financial reporting; the role of the government in business; regulations, and laws; working with others; and successfully managing employees.

PERSONAL FINANCE

Semester

Prerequisite: None

This introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in settling and researching financial goals as they develop the core skills needed to be successful. In this one-semester course students learn how to open bank accounts, invest money, apply for loans, apply for insurance, explore careers, manage business finances, make decisions about major purchases, and more. Students will be inspired by stories from finance professionals and individuals who have reached their financial goals.

GREEN DESIGN AND TECHNOLOGY

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

The Green Design and Technology course introduces students to the basic principles of green technologies and innovations in design, architecture, and engineering. Students calculate the ecological footprint and evaluate the impact of green design and technologies on environmental issues and sustainability. Topics include LEED green building rating system, green manufacturing and construction, systems thinking and predicting results, transportation planning and green vehicles, energy sources and alternatives, green agriculture and aquaculture, and natural resources and resource depletion. Students learn sustainable building and living practices.

GAME DESIGN

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

Utilizing the Multimedia Fusion 2® software program, this one-semester course allows students to build a solid foundation in the fundamentals of game design and development. Students create an impressive portfolio of interactive, engaging games such as a classic two-player ping pong game, a Block-breaking action game, and a maze game with moving obstacles. Students learn the MMF2 language of events, conditions, and actions; game objects that track scores, lives, time; and more, automated, random, and user-controlled movement. Topics include libraries and games sounds and game design concepts including objects, layers and frames, cursors and crosshairs, pixels and coordinates, calculations, titles and end screens and looping animations.

FLASH™ ANIMATION

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

This introductory course teaches all the animation essentials. Student's cell animation, timelines, movies, sound and more using Adobe® Flash® Creative Suite 4 (CS4), the preferred design tool of industry pros worldwide. Students learn to draw and animate movies and publish them to the web. Students will create original art, or choose asset libraries included in each project. They will also complete a portfolio of Flash animations.

AUDIO ENGINEERING

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

This introductory one-semester course teaches the four main steps of professional audio engineering; recording, editing, mixing, and mastering. Through a series of Audacity® software projects, students learn tones and waveforms, recording studios and formats. Musical Instrument Digital Interface (MIDI) and Digital Audio Workstations (DAW®), syncing audio, and many other topics relating to the field of audio engineering. Activities include echo and reverb effects; encoding and exporting audio; mastering audio files and mixing samples to create a new track; equalizing, compressing, and normalizing audio files; and adding fading and crossfading.

FLASH™ GAME DEVELOPMENT

Semester

Prerequisite: None

Course Supplies: Personal USB drive may be needed to save work

The Flash Game Development course teaches fundamentals of game design and development through step-by-step projects in Adobe Flash®, a professional grade software program. Students create a diverse portfolio of games while incorporating game mechanics such as point-and-click, click-and-drag, shooter, and scrolling action, and multi-room exploration. Topics include timeline, layers, keyframes, libraries, assets, and key game design elements including animations, sounds, alpha effects, and title and end screens. Students use ActionScript®, the scripting language of Flash®, for programming objects and frames.

INTRODUCTION TO HEALTH SCIENCE

Year

Prerequisite: None

This high school course introduces students to a variety of healthcare careers as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare systems, students will learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the healthcare field.

Oakland Schools Technical Campus

The programs offered at Oakland Schools Technical Campus are designed to prepare **JUNIOR and SENIOR** students for entry-level skills in various trades and vocations. Students spend a half day at Avondale Academy taking regular subjects and 2 ½ hours (a half day) at the OSTC Campus taking training in their vocational program.

Although students have limited access to the Royal Oak and Clarkston campuses, **transportation is provided to the Northeast/Pontiac campus only**. Transportation is only provided for the afternoon OSTC session. Most programs are designed as a two-year sequence, and students are selected to attend when they register toward the end of the tenth or eleventh grade.

See your counselor or the Oakland Schools Technical Campus website – www.ostconline.com – for a description of programs offered at other Oakland Schools Technical Campus locations.

Students may be able to complete their fourth, senior year math OR third science requirement within an OSTC program. Students should discuss this with their counselor for approval.

BIOTECHNOLOGY AND ENVIRONMENTAL SCIENCE

Offered at SE and NW campuses only. Enrollment determined by space. Student must have own transportation.

BUSINESS MANAGEMENT, MARKETING & TECHNOLOGY

In the Business, Management, Marketing, and Technology cluster, students learn Information Technology skills in Networking and PC Troubleshooting, Web Development, Database Administration and Programming. Within these career opportunities, students can earn several certifications. In addition, in the Business Management & Ownership career opportunity, students learn entrepreneurship skills that provide them with the knowledge necessary to manage and run their own business. They can also participate in an online partnership with Macomb Community College; earn college credits and a Certificate of Entrepreneurship over two years. Each campus provides students the opportunity to earn vouchers to obtain certificates, licenses and certifications for several BMMT career options; either onsite or offsite at certified testing centers. The vouchers are provided for free to students enrolled in the program.

CONSTRUCTION TECHNOLOGY

This cluster provides students with opportunities to learn skills to work in all areas of the construction field including; carpentry, interior/exterior finishing, electrical, plumbing, masonry, heating, ventilation, air conditioning and refrigeration (HVAC) home repair, building and grounds maintenance, and construction management. Students who complete this program have a seamless transition to licensing and/or apprentice programs such as Associated Building & Contractors Apprentice School, colleges or universities that offer building construction or construction management programs.

COSMETOLOGY

Successful completion of the Cosmetology program allows the student to apply for state licensing exams. This course includes extensive hands-on instruction using an advance integrated Curriculum in academics, technical, and workplace skills. Core skills include entrepreneurship, salon ecology, safety and electricity, general anatomy, and chemistry. Technical skills include hair care and treatments, esthetics, nail technology, hair cutting and hair coloring.

CULINARY ARTS/HOSPITALITY

This cluster prepares students for a broad background of skill and knowledge utilizing industry based tools, equipment and technology required to be productive in a modern commercial kitchen with applications in business procedures for today's professional. Computer systems are used to maintain inventory, place orders, and produce communications through simulations of actual industry situations. Training is provided in cooking, menu design, staffing and scheduling, food preparation, and financial management. Additionally, students will contribute to the day-to-day operations of a restaurant and catering services. Travel, tourism and hospitality fundamentals are also covered in the two-year program.

ENGINEERING/EMERGING TECHNOLOGIES

This course is an intensive hands-on program designed to prepare students with skills necessary to successfully enter engineering and manufacturing technology careers. In addition to completing core/foundation skills including: Hydraulics/pneumatics, computerized design processes, robotics, and electricity/electronics, students are trained in high tech engineering technologies including virtual simulation, computerized manufacturing, and rapid prototyping.

HEALTH SCIENCES

The Health Sciences cluster provides students with core and foundation skills for health fields such as medical assisting, laboratory, medical office technology, dental assisting, optical technology, nursing, and pharmacy. Also, students will gain an understanding in all areas of the health core curriculum including safety, anatomy and physiology, asepsis, ethics, medical terminology, pharmacology, prevention and office procedures. Additional training opportunities are available in phlebotomist, EKG technician, sports safety, radiology aide, surgical technical aide, respiratory therapy aide, occupational therapist, physical therapist, dietary aide, and medical records and billing.

TRANSPORTATION

The Transportation Cluster provides an intensive hands-on program designed to prepare students with skills necessary to successfully enter into transportation careers. In this one or two year course the student will gain core and foundation skills related to gas and diesel engine theory, auto collision repair and refinishing, basic mechanical principles and the use of computerized diagnostic tools and equipment operation, and measuring. Students will gain competency in safety concepts, equipment operation, and measuring. Safety, shop orientation, and tools and equipment are also part of the curriculum. The transportation cluster has National Automotive Service Excellence (ASE) certification in Automotive Technology and Collision Repair.

VISUAL IMAGING

Offered at SE and NW campuses only. Enrollment determined by space. Student must have own transportation.

