

2018-2019 Gray Matter Class List

Middle School classes listed by subject:

Science

Earth Science
Engineering
Life Science
Integrated Physics and Chemistry

Math

Math-U-See (multi-level through Pre-Algebra)
*3 different sections to choose the right time for you

Language Arts

Middle School English
Writer's Workshop
Yoga & Creative Writing

History

Middle School World Geography
Texas History
World History through Art

Foreign Language

Middle School Spanish

Fine Arts

Fall Drama*
Fall Improv*
Multimedia Art
Pop, Punk, Urban and Cool Contemporary Art!

Electives

Critical Thinking
Introduction to Formal Logic
LEGO Mechanisms
Middle School Public Speaking
Online Computer Programming

Physical Education

Yoga & Creative Writing

High School classes listed by subject:

Science

Advanced Biotechnology &
Biotechnology Research Years I, II, and III
Honors Biology
Honors Chemistry
Honors Physics

Math

Math-U-See Algebra I
Math-U-See Geometry
Math-U-See Algebra II and Beyond

Language Arts

Advanced Composition
High School English
High School Writing: The Basics
Yoga & Creative Writing

History

African American History – The Harlem Renaissance
American History
High School World Geography
World History through Art

Foreign Language

Spanish 1
Spanish 2

Fine Arts

Fall Improv*
Multimedia Art

Electives

Computer Programming
Creative Problem Solving
Ludology*
Online Computer Programming
Robotics
Speech and Debate

Physical Education

Yoga & Creative Writing

*Fall semester only. There will either be the same class offered for the Spring Semester or an advanced version.

Gray Matter Fall 2018 - Course Catalog

Science

Advanced Biotechnology Year 1 and Biotech Research II

Teacher: Courtney Edmonson

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 3:30 – 5:30 pm

Duration: 4 hours per week, 32 weeks

Fee(s):

Full Tuition

Supply Fee

\$1,080.00

\$0- included

Description:

We spend two hours covering concepts and two hours in hands-on labs each week.

Biotechnology is one of the fastest growing industries in the nation, with a high demand for entry-level workers and two-year and four-year college graduates. In the last 25 years, the US biotechnology industry has created more than 198,000 high-quality jobs, at over 1,400 pharmaceutical, agricultural, industrial, and instrumentation biotechnology companies, plus more at academic and government agencies. In North Texas alone, over 16,000 people are employed in this industry (2004). After taking this course, your student is well prepared for college lab work, or can apply to work as an intern in the DFW biosciences industry.

During the 32 weeks your student learns:

- basic biology and chemistry necessary for our lab work
- DNA isolation and analysis
- protein isolation and analysis
- assay development
- how to use the spectrophotometer for protein assays
- how to splice genes and genetically transform bacteria
- recombinant protein production
- protein purification and analysis

Students learn cutting-edge lab techniques currently used in the biotech industry:

- use micro-pipettes
- make lab solutions (a gateway skill to internships!)
- run vertical and horizontal gel electrophoresis equipment
- perform PCR
- use a spectrophotometer
- separate proteins using a variety of techniques, including column chromatography
- and many other lab skills directly pertinent to working in the industry (or preparing for college!)

Students gain hands-on experience with advanced lab equipment that includes:

- Spectrophotometer for protein assays—quantitative measurement of the reflection or transmission properties of a material as a function of wavelength
- PCR (Polymerase Chain Reaction) machine—biochemical technology in molecular biology used to amplify a single or a few copies of a piece of DNA
- Horizontal and vertical gel electrophoresis equipment—separation and analysis of macromolecules (DNA, RNA and proteins) and their fragments
- Column chromatography—purify individual chemical compounds from mixtures
- Electron microscope—uses accelerated electrons as a source of illumination to reveal the structure of smaller objects

Join this class to step into the 21st Century! (It really is the coolest class, ever!)

Prerequisites:

Biology

Homework: Students are expected to prepare their laboratory notebook, including pre-lab questions, before class and may need to complete additional research and conclusions outside of class. (approximately 1-2 hours per week)

Class Materials: Textbook and Lab Manual: *Biotechnology: A Laboratory Skills Course, Student Edition* Brown, et al. ©2011 ISBN-13: **978-0-983-23960-4**. New and Used versions are available at textbooks.com

Payment Options:

1. Full tuition of \$1080.00 due at time of registration.
2. Semester tuition of \$540 due at time of registration and second semester payment of \$540 due by January 15th
3. Monthly payments of \$120. First month is due at time of registration. Subsequent monthly payments of \$120 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Biology [Honors]

Teacher: Courtney Edmonson

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 9:00 – 10:45 am

Duration: 3.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$900.00

\$0- included

Description:

This is pre-AP/Honors Biology class for high school students or advanced middle school students using high school curriculum and counted as a high school science class on your transcript. (AP-level classes can be setup, providing the minimum of 4 enroll; contact instructor for additional information).

This is a lab-based class which includes inquiry-based labs. As usual, we spend about half our time covering concepts and the other half in hands-on labs each week.

Topics include cell chemistry, cell structure and function, heredity and genetics, classification, the six kingdoms (including large amounts of dissection the second semester), human anatomy, ecology, and evolution. (Your child can skip the dissections without penalty, if necessary.)

Prerequisites:

None

Homework:

Students can expect to spend 1-3 hours per week studying and note taking. There are 2 exams - midterm and final, regular quizzes, and occasional homework.

Class Materials:

Miller and Levine-authors, Pearson-publisher

Textbook: *Biology (New Edition)* ©2010 ISBN-13: **978-0-13-366951-0**, Hardcover

Lab Manual: *Biology Lab Manual A* ©2009 ISBN-13: **978-0-13-368712-5**, Unknown binding

Standard notebook paper (spiral or loose leaf, student's preference), binder, and pens

Payment Options:

1. Full tuition of \$900.00 due at time of registration.
2. Semester tuition of \$450 due at time of registration and second semester payment of \$450 due by January 15th
3. Monthly payments of \$100. First month is due at time of registration. Subsequent monthly payments of \$100 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Chemistry [Honors]

Teacher: Courtney Edmonson

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 1:00 – 3:00 pm

Duration: 4 hours per week, 32 weeks

<u>Fee(s):</u>	<u>Full Tuition</u>	<u>Supply Fee</u>
	\$990.00	\$0- included

Description: This is a pre-AP/Honors Chemistry class designed to prepare your student for college-level coursework.

This is a lab-based class with inquiry-based labs. About half our time covering concepts and the other half in hands-on labs each week. Topics include titrating acids, purifying water, testing to identify the anions and cations in fertilizers, testing the percentages of protein, vitamin C, iron, fats, carbohydrates, and water in foods, preparing and testing a carbonate buffer, testing the activity of enzymes at different pH levels, testing air samples for CO₂, building a cloud chamber and observing the vapor trails from a radioactive particle as well as the effect of a magnetic field on the particle, making esters and so much more!

Prerequisites: Biology preferred

Homework: Students can expect to spend 1-3 hours per week studying and note taking. There are 2 exams - midterm and final, regular quizzes, and occasional homework.

Class Materials: Textbook: *Glencoe Chemistry: Matter And Change*; Student Edition [1st edition]; by Nicholas Hainen, Cheryl Wistrom, Laurel Dingrando, and Kathleen V. Gregg; ©2001; ISBN-13: **978-0-028-28378-4**; Hardback, Published by Glencoe/McGraw-Hill; 976 pages.

Lab manual provided as copies. Cost of copies included in tuition.

Standard notebook paper (spiral or loose leaf, student's preference), binder, pens, and scientific calculator

Payment Options:

1. Full tuition of \$990.00 due at time of registration.
2. Semester tuition of \$495 due at time of registration and second semester payment of \$495 due by January 15th
3. Monthly payments of \$110. First month is due at time of registration. Subsequent monthly payments of \$110 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Earth Science

Teacher: Ian Seamans

Grades: 6, 7

Class Schedule: Wednesday Only

Class Time: 10:45 – 12:15 pm

Duration: 1.5 hours per week, 32 wks

<u>Fee(s):</u>	<u>Full Tuition</u>	<u>Supply Fee</u>
	\$630.00	\$0- included

Description: This year we cover Geology, Meteorology, Oceanography, and Astronomy. Earth Science integrates biology, chemistry, and physics in a very real and tangible way. An understanding of the Earth and the forces that act upon it also provide a foundation of understanding for high school science classes. If you don't take Earth Science here, make sure you cover these fascinating topics at home. (It's one of my favorite science subjects!)

As usual, at least 50% of this class is labs. The labs that come with the textbook are interesting and engaging, and we also use labs from other excellent resources.

Prerequisites: None

Homework: Students can expect to spend 2-3 hours weekly reading the textbook and taking notes, as well as completing weekly homework assignments and preparing for exams (2) and quizzes.

Class Materials: Textbook: *Holt Science and Technology: Earth Science*, Pupil Edition, by Rinehart and Winston Holt. ©2002 ISBN-13: 978-0-030-51953-6 Publisher: Holt, Rinehart and Winston, Hardback 808 pages

Standard notebook paper (spiral or loose leaf, student's preference), binder, and pens

Payment Options:

1. Full tuition of \$630.00 due at time of registration.
2. Semester tuition of \$315 due at time of registration and second semester payment of \$315 due by January 15th
3. Monthly payments of \$70. First month is due at time of registration. Subsequent monthly payments of \$70 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Engineering

Teacher: Laura Woolley

Grades: 6, 7, 8

Class Schedule: Monday/Wednesday

Class Time: 10:45 - 12:15 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$990.00

\$0 – supplies are included in tuition

Description:

Students review simple machines to see how they are used for energy transference in more complex machinery. Students use the Engineering Design Process on their many designs throughout the class. They will work together to create simple and complex Rube Goldberg machines. When learning about various forces, they will apply their knowledge of bridge design and construction to determine which bridge design is the most robust.

Your students learn about:

- Energy transference and simple machines
- Perspective, orthographic, isometric and CAD drawings
- Tension, compression, torque and shear, how these forces interact with structures, and design basics used when dealing with these forces.
- Various materials and fasteners available, the strengths and weaknesses of each, and how to choose the best material and fasteners for your design.
- Various tools, including basic and power tools, necessary safety instructions, and how/when to use them.
- The Engineering Design Process

Toward the end of the year, students apply the knowledge gained in class and the Engineering Design Process to build something lasting for the school. The class is very interactive and student-driven, with a lot of activities built into the curriculum.

The class focuses on the design and build process.

Prerequisites: None

Homework: Students can expect to spend 1-3 hours per week.

Class Materials: No textbook for this class

All handouts are provided by teacher. The materials fee of \$50 is included in the tuition.

Standard notebook paper (spiral or loose leaf, student's preference), binder, and pens

We are using the eGFI (engineering Go For It) website resources: <http://www.egfi-k12.org/about/>

Payment Options:

1. Full tuition of \$990.00 due at time of registration.
2. Semester tuition of \$495 due at time of registration and second semester payment of \$495 due by January 15th
3. Monthly payments of \$110. First month is due at time of registration. Subsequent monthly payments of \$110 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Integrated Physics and Chemistry

Teacher: Courtney Edmonson

Grades: 7,8

Class Schedule: Monday Only

Class Time: 1:00 – 3:00 pm

Duration: 2 hours per week, 32 weeks

Fee(s): **Full Tuition** **Supply Fee**

\$702.00 \$0- included

Description: We spend one semester on basic concepts in physical science, and one semester on basic chemistry. We use labs to internalize Newton's Three Laws, fluid dynamics, work and machines, energy and heat, electricity, magnetism, wave properties, sound and light, the properties of matter, elements, atoms, chemical bonds, chemical reactions, acids, bases, and atomic energy. You should take this course the year before you start your high school science classes.

Prerequisites: None

Homework: Students can expect to spend 2-3 hours weekly reading the textbook and taking notes, as well as completing weekly homework assignments and preparing for exams (2) and quizzes.

Class Materials: **Text book:** *Holt Science & Technology: Physical Science* © 2004 ISBN-13: **978-0-030-73168-6**

Standard notebook paper (spiral or loose leaf, student's preference), binder, and pens

Payment Options:

1. Full tuition of \$702.00 due at time of registration.
2. Semester tuition of \$351 due at time of registration and second semester payment of \$351 due by January 15th
3. Monthly payments of \$78. First month is due at time of registration. Subsequent monthly payments of \$78 on 9/1, 10/1. 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Life Science

Teacher: Ian Seamans

Grades: 5, 6

Class Schedule: Monday Only

Class Time: 10:45 – 12:15 pm

Duration: 1.5 hours per week, 32 wks

Fee(s): **Full Tuition** **Supply Fee**

\$630.00 \$0- included

Description: Covers basic information about living organisms, ecology, the human body and evolution. We use hands-on activities and labs to explore scientific investigation, cells and cell activity, heredity and DNA, classification of organisms, the six kingdoms, all systems of the human body, radioactive dating, fossils, evolution, and dissection. (Your child can skip the dissections without penalty, if necessary.)

Prerequisites: None

Homework: Students can expect to spend 2-3 hours weekly reading the textbook and taking notes, as well as completing weekly homework assignments and preparing for exams (2) and quizzes.

Class Materials: **Text book:** *Holt Science & Technology: Life Science* © 2004 ISBN **978-0-030-73164-8** or 0-030-73164-X

Standard notebook paper (spiral or loose leaf, student's preference), binder, and pens

Payment Options:

1. Full tuition of \$630.00 due at time of registration.
2. Semester tuition of \$315 due at time of registration and second semester payment of \$315 due by January 15th
3. Monthly payments of \$70. First month is due at time of registration. Subsequent monthly payments of \$70 on 9/1, 10/1. 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Physics [Honors]

Teacher: Courtney Edmonson

Grades: 10, 11, 12

Class Schedule: Tuesday/Thursday **Class Time:** 10:45 am – 12:15 pm **Duration:** 3 hours per week, 32 weeks

Fee(s):	Full Tuition	Supply Fee
	\$900.00	\$0- supplies are included in tuition

Description: This algebra-based Honors Physics course that takes you from kinematics through thermodynamics, vibrations, optics, quantum mechanics, and astrophysics. The course structure builds and enhances physics topics skills using innovative labs, numerous group discussions and activities, plus problem solving using applied mathematics. Honors Physics incorporates additional mathematics and theoretical concepts beyond the middle school Integrated Physics and Chemistry class.

Prerequisites: Algebra II. Basic trigonometry helps but is not required.

Homework: Students can expect to spend 2-4 hours per week on chapter readings and regular homework, as well as preparing for exams (2 per semester)

Class Materials: **Textbook:** *Holt Physics: Pupil Edition 1st Edition* by Serway and Faughn ©2002, ISBN-13: 978-0-030-56544-1, HOLT, RINEHART AND WINSTON Hardcover

Scientific Calculator
Standard notebook paper (spiral or loose leaf, student's preference), binder, pens, and scientific calculator

Note: Parents can use earlier or later textbook editions based on availability and price; there are only minor differences between publications.

Payment Options:

1. Full tuition of \$900.00 due at time of registration.
2. Semester tuition of \$450 due at time of registration and second semester payment of \$450 due by January 15th
3. Monthly payments of \$100. First month is due at time of registration. Subsequent monthly payments of \$100 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Math

Algebra 1

Teacher: Habib Saidane

Grades: 7, 8, 9, 10

Class Schedule: Tuesday/Thursday **Class Time:** 11:00 am – 12:15 pm **Duration:** 2.5 hours per week, 32 wks

Fee(s):	Full Tuition	Supply Fee
	\$756.00	\$0

Description: In Algebra I, you use all your previous knowledge about whole numbers, fractions, decimals, negatives, exponents, and solving equations to develop stronger problem solving strategies. This includes more work with exponents and solving more complex equations as well as graphing, simultaneous equations, polynomials, unit multipliers, and more. The goal is to use math as the problem solving tool for which is was designed to achieve deeper understanding of each lesson and acquire a functioning knowledge of math for life-long use. Even if you never solve another equation after school, you will use these problem-solving strategies in your everyday life.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website www.sophia.org at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, "**Yes, You CAN do math!**"

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to

go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, online quiz, practice page, review page, and test). The in-class activities are based on a pace of one lesson per week.

What do I buy? Am I ready for Algebra? Can I just skip Pre-Algebra? We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **Just a caution**, it can take a couple of weeks to arrive through the mail. I provide the teaching textbooks, manipulatives, and any supplementary material. **I strongly discourage skipping the Pre-Algebra course and moving directly from Zeta into Algebra.**

Prerequisites: An understanding of Middle School Pre-Algebra Concepts

Homework: Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

Class Materials: Math-U-See Algebra 1 Student Pack.
You can find the student workbook and test book at <http://store.mathusee.com/>

Payment Options:

1. Full tuition of \$756.00 due at time of registration.
2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15th
3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Algebra 2 and Beyond

Teacher: Habib Saidane

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 9:30 – 10:45 am

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$756.00

\$0

Description:

So you have completed Algebra I and Geometry and want to learn even more about upper-level math. You also want to prepare even further for your college entry exams. Algebra II is the next step where we explore topics such as factoring polynomials, the quadratic formula, and graphing conic sections. Next is Pre-Calculus where we learn trigonometry, the identities, polar equations, logarithms, sequences, and limits in preparation for Calculus. If you have completed both Algebra II and Pre-Calculus, I can help you prepare for the AP Calculus test. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website www.sophia.org at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, **"Yes, You CAN do math!"**

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, online quiz, practice page, review page, and test). The in-class activities are based on a pace of one lesson per week.

What do I buy? Am I ready for Algebra II? Pre-Calculus? AP Calculus? We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **Just a caution**, it can take a couple of weeks to arrive through the mail. I provide the teaching textbooks, manipulatives, and any supplementary material.

Go to www.mathusee.com/ to find free placement tests.

AP Calculus

Students who are ready for Calculus have successfully completed Algebra I, Algebra II, Geometry, and Pre-Calculus (or an advanced math/ trigonometry equivalent)

Note: We will not be using the Math-U-See curriculum to prepare for the AP Calculus exam. We are not an official AP Calculus class, but only because it is not a requirement to register through the SAT Board to qualify to take the exam. You just need to make sure you are ready. I am following the SAT Board guidelines to ensure you have been taught all you need to know to do well on the AP Calculus exam. The rest is up to you. Completion of Algebra 1 level work

Prerequisites:

Homework:

Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

Class Materials:

Math-U-See Algebra 2 Student Pack.
OR Math-U-See Pre-Calculus Student Pack.
OR Math-U-See Calculus Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

Payment Options:

1. Full tuition of \$756.00 due at time of registration.
2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15th
3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Geometry

Teacher: Habib Saidane

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 1:00 – 2:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$756.00

\$0

Description:

So you've completed Algebra I and want to learn even more about upper-level math. You also want to prepare for your college entry tests. Geometry is the next step. Together we will learn about points, lines, planes, angles, circles, triangles, quadrilaterals, the Pythagorean Theorem, conic sections, proofs, and more. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website www.sophia.org at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, **"Yes, You CAN do math!"**

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, online quiz, practice page, review page, and test). The in-class activities are based on a pace of one lesson per week.

What do I buy? Am I ready for Geometry? We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **Just a caution**, it can take a couple of weeks to arrive through the mail. I provide the teaching textbooks, manipulatives, and any supplementary material.

Go to www.mathusee.com/ to find free placement tests.

Prerequisites:

Completion of Algebra 1 level work

Homework: Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

Class Materials: Math-U-See Geometry Student Pack.
You can find the student workbook and test book at <http://store.mathusee.com/>

Payment Options:

1. Full tuition of \$756.00 due at time of registration.
2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15th
3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Middle School Math (Section 1)

Teacher: Habib Saidane

Grades: 6, 7, 8, 9

Class Schedule: Monday/Wednesday

Class Time: 9:30 – 10:45 am

Duration: 2.5 hours per week, 32 wks

Fee(s):	Full Tuition	Supply Fee
	\$720.00	\$0

Description: In Middle School Math, you master fractions (when starting at the Epsilon level) or decimals (starting at the Zeta level) or negative numbers, order of operations, and solving for the unknown (when starting at the Pre-Algebra level). (See the placement tests below to help you pick the math level on which you should begin.) Together we use discovery learning and hands-on activities to understand the basic concepts for your level. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website www.sophia.org at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, "**Yes, You CAN do math!**"

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, online quiz, practice page, review page, and test). The in-class activities are based on a pace of one lesson per week.

What do I buy? Which Math-U-See level do I pick? We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **Just a caution**, it can take a couple of weeks to arrive through the mail. I provide the teaching textbooks, manipulatives, and any supplementary material. Both Epsilon and Zeta require mastery of the basic operations of adding, subtracting, multiplying, and dividing.

Go to www.mathusee.com/ to find free placement tests.

Prerequisites: None

Homework: Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

Class Materials: Math-U-See Epsilon Student Pack.
OR Math-U-See Zeta Student Pack.
OR Math-U-See Pre-Algebra Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Middle School Math (Section 2)

Teacher: Habib Saidane

Grades: 6, 7, 8, 9

Class Schedule: Monday/Wednesday

Class Time: 11:00 am – 12:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$0

Description:

In Middle School Math, you master fractions (when starting at the Epsilon level) or decimals (starting at the Zeta level) or negative numbers, order of operations, and solving for the unknown (when starting at the Pre-Algebra level). (See the placement tests below to help you pick the math level on which you should begin.) Together we use discovery learning and hands-on activities to understand the basic concepts for your level. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website www.sophia.org at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, "**Yes, You CAN do math!**"

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, online quiz, practice page, review page, and test). The in-class activities are based on a pace of one lesson per week.

What do I buy? Which Math-U-See level do I pick? We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **Just a caution**, it can take a couple of weeks to arrive through the mail. I provide the teaching textbooks, manipulatives, and any supplementary material. Both Epsilon and Zeta require mastery of the basic operations of adding, subtracting, multiplying, and dividing

Go to www.mathusee.com/ to find free placement tests.

Prerequisites:

None

Homework:

Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

Class Materials:

Math-U-See Epsilon Student Pack.
OR Math-U-See Zeta Student Pack.
OR Math-U-See Pre-Algebra Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th

3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Middle School Math (Section 3)

Teacher: Habib Saidane

Grades: 6, 7, 8, 9

Class Schedule: Monday/Wednesday

Class Time: 1:00 – 2:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$0

Description:

In Middle School Math, you master fractions (when starting at the Epsilon level) or decimals (starting at the Zeta level) or negative numbers, order of operations, and solving for the unknown (when starting at the Pre-Algebra level). (See the placement tests below to help you pick the math level on which you should begin.) Together we use discovery learning and hands-on activities to understand the basic concepts for your level. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website www.sophia.org at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, "**Yes, You CAN do math!**"

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, online quiz, practice page, review page, and test). The in-class activities are based on a pace of one lesson per week.

What do I buy? Which Math-U-See level do I pick? We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **Just a caution**, it can take a couple of weeks to arrive through the mail. I provide the teaching textbooks, manipulatives, and any supplementary material. Both Epsilon and Zeta require mastery of the basic operations of adding, subtracting, multiplying, and dividing.

Go to www.mathusee.com/ to find free placement tests.

Prerequisites:

None

Homework:

Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

Class Materials:

Math-U-See Epsilon Student Pack.
OR Math-U-See Zeta Student Pack.
OR Math-U-See Pre-Algebra Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
 2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
 3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
-

Language Arts

Advanced Composition

Teacher: Collin Eye

Grades: 9, 10, 11, 12

Class Schedule: Tuesdays Only

Class Time: 10:45 am – 12:15 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$756.00

\$0

Description:

This class prepares students for the essay writing they'll be expected to do in college, whether they're going into the Natural Sciences, Liberal Arts, or Fine Arts. Students will practice various forms of writing, with a focus on analysis/research papers. They'll learn various techniques for essay-planning, draft-writing, and self-revision; as well as how to use vocabulary and grammar to best express themselves.

The class will provide thought-provoking material in the form of literature, philosophy, science, and film; we will have weekly discussions of this material which helps students gain new perspectives on the material, influencing their own thoughts. Students will learn to thoroughly analyze this material and codify their thoughts in the form of essays. This combination of reading, writing, and discussion will develop time-management skills and the courage to participate, essential skills for success in college. They will also have the opportunity to write about themselves and their own interests which is how one produces exceptional college applications.

Prerequisites:

None

Homework:

Students can expect to spend 2–5 hours per week, depending on student pace.

Class Materials:

All the material we read/watch in class is freely available online. I encourage students to buy copies of the books so its easier to markup and bring to class, but they are not required.

Bound composition book or something else preferred to take notes in
Pens/pencils
Optional: Laptop or Tablet (for note taking)

Payment Options:

1. Full tuition of \$756.00 due at time of registration.
2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15th
3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

High School English

Teacher: Julie Poe

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 9:30 - 10:45 am

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$50

Description:

This class primarily focuses on literature from the 1700s to today. Students will be expected to learn vocabulary from the works we read, report on background information to enrich our learning experience, and respond to the literature through various projects. I will throw in a little grammar practice as I notice issues we need to work on. This class provides one high school English credit.

Literature: The following is a partial and TENTATIVE list of major works for 2018-2019. (You do not need to purchase these since I will have a classroom set.) *A Tale of Two Cities* by Charles Dickens, *Night* by Elie Wiesel, *The Watch That Ends the Night* by Allan Wolfe, *Animal Farm* by George Orwell.

Prerequisites: None

Homework: Students can expect to spend 2–4 hours per week, depending on student pace.

Class Materials: 3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils
Optional: laptop or other writing device

\$50 supply fee for instructor to provide materials throughout the year. I will provide a classroom set of the novels we read so that we can all use the same edition. If a student wants to keep a particular book, he can buy it from me for \$5.

Payment Options:

1. Full tuition of \$720.00 due at time of registration
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

High School Writing: The Basics

Teacher: Julie Poe

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 2:45 – 3:45 pm

Duration: 2 hours per week, 32 weeks

Fee(s):

Full Tuition

Supply Fee

\$630.00

\$0

Description:

My goal is to take the dread out of writing! There are just some basic techniques and skills that are necessary to complete the writing tasks of high school and beyond. We will break those skills down and master them. This class will include some gentle work on spelling, but spelling or handwriting do not determine a student's success as a writer. We will actually be writing often during the class period, so students are encouraged to bring a laptop or other device to class to do their writing.

Prerequisites:

None

Homework:

Students can expect to spend 2–4 hours per week, depending on student pace.

Class Materials:

Textbook: Improving Vocabulary Skills , 4/e by Sherrie L. Nist SKU/ISBN: 1-59194-190-3

3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils
Optional: laptop or other writing device

Payment Options:

1. Full tuition of \$630.00 due at time of registration.
2. Semester tuition of \$315 due at time of registration and second semester payment of \$315 due by January 15th
3. Monthly payments of \$70. First month is due at time of registration. Subsequent monthly payments of \$70 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Middle School English

Teacher: Julie Poe

Grades: 6, 7, 8

Class Schedule: Monday/Wednesday

Class Time: 3:00 – 4:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s): **Full Tuition** **Supply Fee**

\$720.00 \$50

Description: This class includes grammar, reading, and vocabulary. We read several novels during the year plus short stories and poetry. We will build skills in a variety of ways, including written exercises, games, discussions, group activities, and creative demonstrations of knowledge.

The following is a TENTATIVE and partial list of novels for 2018-2019. (You do not need to purchase these since I will have a classroom set.)

- *Bud Not Buddy* by Christopher Paul Curtis
- *A Single Shard* by Linda Sue Park
- *Gathering Blue* by Lois Lowry
- *Walk Two Moons* by Sharon Creech

NOTE: Students can take this course for up to 3 years. The textbooks, vocabulary, and literature will not be the same from one year to the next.

Prerequisites: None

Homework: Students can expect to spend 1–4 hours per week, depending on student pace.

Class Materials: Textbook: *Building Vocabulary Skills, 4th edition* Author : Sherrie L. Nist **SKU/ISBN:** 1-59194-188-1
(*Vocabulary Plus is not required, but you might find it worth the five dollars.*)

3-ring binder devoted to this class only
Standard notebook paper
Pens/pencils
Colored pencils
Optional: laptop or other writing device

\$50 supply fee for instructor to provide materials throughout the year. I will provide a classroom set of the novels we read so that we can all use the same edition. If a student wants to keep a particular book, he can buy it from me for \$5.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Writer's Workshop

Teacher: Julie Poe

Grades: 6, 7, 8

Class Schedule: Monday/Wednesday

Class Time: 9:30 – 10:45 am

Duration: 2.5 hours per week, 32 wks

Fee(s): **Full Tuition**

Supply Fee

\$720.00 \$0

Description: My goal is to take the dread out of writing! We will do all kinds of exercises and activities to explore our voices and to improve our mechanics and style. This class will include some gentle work on spelling, but spelling or handwriting do not determine a student's success as a writer. We will actually be writing often during the class period, so students are encouraged to bring a laptop or other device to class to do their writing.

NOTE: This class does NOT use the WriteShop Curriculum.

Prerequisites: None

Homework: Students can expect to spend 1–2 hours per week.

Class Materials: 3-ring binder devoted to this class only
Standard notebook paper

Pens/pencils
Colored pencils
Optional: laptop or other writing device

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
 2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
 3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
-

Yoga & Creative Writing (High School)

Teacher: Karen Minzer

Grades: 9, 10, 11, 12

Class Schedule: Tuesday Only

Class Time: 2:45 – 4:00 pm

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$630.00

\$20

Description:

This course offers basic instruction in the systemized study of yoga asana and breathing practice. A brief survey in history of world literary traditions for contemplative writing will enhance students' observation skills and self-confidence. Writing exercises and literary readings will focus on details of images as metaphor for thought.

Format: 30 minutes guided yoga practice, 15 minutes writing, 30 minutes student reading and discussion. A final group writing exercise completes the class, recorded by Instructor. Assignments for reading and writing exercises precede each class.

Dress: Loose clothing suitable for flexible movement. No skirts or dresses.

Prerequisites:

None

Homework:

A monthly portfolio is delivered in packets of 7 pages of creative work generated in and out of class. Final Portfolio consists of 20 pages of revised and polished work, generated from class and out of class assignments. Additionally, each student will take turns facilitating an individualized yoga class as a final exam in yoga. One critical response paper.

Class Materials:

Yoga mat *and* blanket. Additional props will be provided by instructor.
In class writing journal exclusive to this class. Device use acceptable for writing and reading.

Payment Options:

4. Full tuition of \$630.00 due at time of registration.
 5. Semester tuition of \$315 due at time of registration and second semester payment of \$315 due by January 15th
 6. Monthly payments of \$70. First month is due at time of registration. Subsequent monthly payments of \$70 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
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Yoga & Creative Writing (Middle School)

Teacher: Karen Minzer

Grades: 6, 7, 8

Class Schedule: Monday Only

Class Time: 9:30 - 10:45 am

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$630.00

\$20

Description: This course offers basic instruction in the systemized study of yoga asana and breathing practice. A brief survey in history of world literary traditions for contemplative writing will enhance students' observation skills and self-confidence. Writing exercises and literary readings will focus on details of images as metaphor for thought.

Format: 30 minutes guided yoga practice, 15 minutes writing, 30 minutes student reading and discussion. A final group writing exercise completes the class, recorded by Instructor. Assignments for reading and writing exercises precede each class.

Dress: Loose clothing suitable for flexible movement. No skirts or dresses.

Prerequisites: None

Homework: A monthly portfolio is delivered in packets of 7 pages of creative work generated in and out of class. Final Portfolio consists of 20 pages of revised and polished work, generated from class and out of class assignments. Additionally, each student will take turns facilitating an individualized yoga class as a final exam in yoga. One critical response paper.

Class Materials: Yoga mat *and* blanket. Additional props will be provided by instructor.
In class writing journal exclusive to this class. Device use acceptable for writing and reading.

Payment Options:

7. Full tuition of \$630.00 due at time of registration.
8. Semester tuition of \$315 due at time of registration and second semester payment of \$315 due by January 15th
9. Monthly payments of \$70. First month is due at time of registration. Subsequent monthly payments of \$70 on 9/1, 10/1. 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Foreign Language

Middle School Spanish

Teacher: Julie Poe

Grades: 6, 7, 8

Class Schedule: Monday/Wednesday

Class Time: 11:00 – 12:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$30

Description: This class is designed for students who have little or no experience with Spanish. Above all, we are going to have fun discovering this beautiful language. We will also enjoy some of the culture (especially food!) of several Spanish-speaking countries.

Prerequisites: None

Homework: Students can expect to spend 1-2 hours per week.

Class Materials: 3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils
Internet access at home for homework assignments

No textbook is required.

The supply fee of \$30 allows the teacher to provide resources and materials..

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1. 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Spanish 1

Teacher: Julie Poe

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 11:00 – 12:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$50

Description:

Spanish 1 is designed for students who have little or no experience with Spanish. We will cover the vocabulary and structures that are used most often and those that my students most want to learn. We will learn proper pronunciation, present tense verbs, pronouns, definite and indefinite articles, and gender agreement. We will also enjoy some of the culture (especially food!) of several Spanish-speaking countries. This is a highly interactive class. For a better understanding of my approach to teaching Spanish, you might look into these two approaches: Comprehensive Input and TPRS (Teaching Proficiency through Reading and Storytelling).

Prerequisites:

None

Homework:

Students can expect to spend 1-3 hours per week.

Class Materials:

3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils
Internet access at home for homework assignments

No textbook is required.

The supply fee of \$50 allows the teacher to provide resources and materials.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Spanish 2

Teacher: Julie Poe

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 1:00 - 2:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$50

Description:

Spanish 2 begins with a review of Spanish 1 grammar with increasing opportunities to use the language through speaking, writing, reading and listening. Students will learn new vocabulary and grammar through comprehensive input. In particular, Spanish 2 emphasizes the preterite and imperfect tenses. We will also enjoy some of the culture (especially food!) of several Spanish-speaking countries. This is a highly interactive class. For a better understanding of my approach to teaching Spanish, you might look into these two approaches: Comprehensive Input and TPRS (Teaching Proficiency through Reading and Storytelling).

Prerequisites:

Spanish 1

Homework:

Students can expect to spend 1-3 hours per week.

Class Materials:

3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils
Internet access at home for homework assignments

No textbook is required.
The supply fee of \$50 allows the teacher to provide resources and materials.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

History

African American History – The Harlem Renaissance

Teacher: Karen Minzer

Grades: 6, 7, 8, 9, 10, 11, 12

Class Schedule: Tuesday Only

Class Time: 9:30 – 10:45 am

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$10

Description:

This class introduces students to the variety of cultural expressions that came to be celebrated as “the Harlem Renaissance.” This era is best known for literary styles that defined African American scholarship and urban life in the decades between the World Wars. The textbook will provide social history of the era through photographs and sound clips, and offers access to a range of poems, novel excerpts, news articles, visual arts and memoirs that help bring early Harlem back to life. (suitable for Middle and High school levels)

Class format: Class discussion based on lecture, slides and media clips presented by Karen Minzer. Throughout the semester, students will experience some of the significant music, theater, speeches, visual arts, and fashion trends of the era. The assignments will help relate these artistic expressions to their historical context, tracing the continuing legacy of the Harlem Renaissance in American popular culture.

Evaluations: Tests will be multiple choice and brief essay responses.

Prerequisites:

None

Homework:

Students can expect to spend 1-3 hours per week.

Class Materials:

Textbooks: Wintz, Cary. *Harlem Speaks: A Living History of the Harlem Renaissance*. Naperville, IL: Sourcebooks MediaFusion, 2006. ISBN: 978-1402204364

Textbook (additional for High School-level students): Langston Hughes, “The Big Sea”.

Bound composition book
Colored pencils
Pens, pencils
Optional: Laptop or Tablet

The supply fee of \$10 allows the teacher to provide resources and materials.

Payment Options:

10. Full tuition of \$720.00 due at time of registration.
11. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
12. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Teacher: Collin Eye

Grades: 9, 10, 11, 12

Class Schedule: Tuesday Only

Class Time: 1:00 – 2:45 pm

Duration: 1.75 hours per week, 32 wks

Fee(s):	Full Tuition	Supply Fee
	\$756.00	\$10

Description: What is America? The culmination of the European Enlightenment, a nation of immigrants, a new world empire, the center of innovation and discovery, the land of the free? The question has a different answer depending on who you asked, and when. In this class we study the history that's shaped these ideas, from discovery, colonization, and Revolution, to Civil War and Reconstruction, to World War I and Prohibition, to Great Depression and World War II, to Cold War and the Digital Age.

Students learn to thoroughly research various topics on their own, and to form a whole picture from various scraps of sometimes-contradictory accounts. Students will present their research to the class in weekly discussions where we'll discuss the discovered material and the research methods used to find it.

Prerequisites: None

Homework: Students can expect to spend 1-3 hours per week.

Class Materials: 3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils
Internet access at home for homework assignments

No textbook is required.

Payment Options:

1. Full tuition of \$756.00 due at time of registration.
2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15th
3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

High School World Geography

Teacher: Julie Poe

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 3:45 – 5:00 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):	Full Tuition	Supply Fee
	\$720.00	\$50

Description: It becomes more important every day for us to have a deeper understanding of the world. We need to pursue knowledge of not only where countries are on a map, but also what factors shape the culture, economics, and politics of those countries. Geography blends the study of natural environments with human societies. It has become increasingly difficult for textbooks to stay current in this field, so we will use various online and periodical-style resources.

Students will be expected to do reading and research at home in order to fully participate in the class. Each student will also choose one global issue (such as literacy or climate change or gender equality) to follow through all the regions we study, preparing informational maps to share.

This world geography course is high school level and therefore appropriately rigorous. However, we will still enjoy foods and guests from different countries!

This course satisfies the high school requirement for a world geography course.

Prerequisites: None

Homework: Students can expect to spend 2-4 hours per week.

Class Materials: 3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils
Internet access at home for homework assignments

No textbook is required.

The supply fee of \$50 allows the teacher to provide resources and materials.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Middle School World Geography

Teacher: Julie Poe

Grades: 6, 7, 8

Class Schedule: Wednesday Only

Class Time: 1:00 - 2:30 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$450.00

\$50

Description:

In this class, as in most geography classes, we use maps, books, and the Internet to gain more information about this world where we all reside. But that is just the beginning. I believe that getting to know people helps us get to know their countries, so I often ask friends from different countries to visit our class.

I also believe we learn best when we use as many of our senses as possible. We will taste foods, listen to music, hear stories, make things with our hands and learn a few words and phrases in other languages.

Prerequisites:

None

Homework:

Students can expect to spend 1 hour per week.

Class Materials:

3-ring binder devoted to this class only
Notebook paper
Pens/pencils
Colored pencils

Students also need access to a current atlas or the Internet for completing assignments. For example: National Geographic Student World Atlas, 4th edition, ISBN-13: 978-1-426-317751

The supply fee of \$50 allows the teacher to provide resources and materials.

Payment Options:

1. Full tuition of \$450.00 due at time of registration.
2. Semester tuition of \$225 due at time of registration and second semester payment of \$225 due by January 15th
3. Monthly payments of \$50. First month is due at time of registration. Subsequent monthly payments of \$50 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Texas History

Teacher: Karen Minzer

Grades: 6, 7, 8

Class Schedule: Monday Only

Class Time: 11:00 – 12:15 pm

Duration: 1.25 hours per week, 32 wks

Fee(s): **Full Tuition** **Supply Fee**

\$720.00 \$10

Description: The story of Texas is expansive, heroic, colorful, dramatic, tragic, consequential. The list of adjectives is never-ending. Join us as we explore historical facts, data interpretation, geographic and cultural heritage diversities from Texas' ancient origins to the 21st century.

Prerequisites: None

Homework: Students can expect to spend 1-2 hours per week.

Class Materials: **Textbook:** *Celebrating Texas: Honoring the Past, Building the Future*; McDougal Littell; (Grades 6-8, Student Edition); ISBN-10: **0-0-618-15512-0** ISBN-13: **978-0-618-15512-5**
Published by: McDougal Littell, Hardcover, 736 pages

Textbook: *The Buena Vista Dilemma: Whether to Become "Gringos"* Uranga, Jose
ISBN-10: 0595272614 ISBN-13: 978-0595272617
Published by: iUniverse, Inc. (May 7, 2003), Paper back, 156 pages

Bound composition book
Colored pencils
Pens, pencils
Notebook paper

Caution: Be careful to order the right textbook. Several books on the market have the title *Celebrating Texas*. Check the ISBN-13 number for the correct one! New and used textbooks are available online or at Home Educator's Resource in Lewisville.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

World History thru Art (Monday)

Teacher: Karen Minzer

Grades: 6, 7, 8, 9, 10, 11, 12

Class Schedule: Mondays Only

Class Time: 1:00 – 2:30 pm

Duration: 1.5 hours per week, 32 wks

Fee(s): **Full Tuition** **Supply Fee**

\$720.00 \$10

Description: This course combines an introduction to masterpieces of Art History and World History. Art monuments, from the Renaissance to the modern period, are presented alongside the development of European political theater and world-wide colonialization through 20th century wars. Works by Michelangelo, Rembrandt, the Impressionists, van Gogh, Picasso, and many other artists are combined with discussion in the context of their historical and social setting. Suitable for both Middle School and High School, as essay assignments are tailored to individualized interests. Laptop or ipad are suggested for notes.

Class format: Slide-illustrated lectures, student presentations and class discussion of textbooks.

Evaluations: Brief essay topics will be assigned to each students to share in class, based on their personal interests. Exams will consist of slide identifications, comparisons, brief essays explaining the significance of the artworks and events, multiple choice, short answer questions, and extra credit. Blue Book required.

Prerequisites: None

Homework: Students can expect to spend 1-3 hours per week.

Class Materials: **Textbook:** Robert Strayer, *Ways of the World*, Vol. 2, 2nd Edition ISBN-13: 978-0312583491

Textbook: Cole, Bruce. *The Informed Eye: Understanding Masterpieces of Western Art*. Lanham, MD: Ivan R. Dee, 1999

Bound composition book
Blue Book
Colored pencils
Pens, pencils
Optional: Laptop or Tablet

NOTE: The 2nd Edition of this *Ways of the World* is much less expensive.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

World History thru Art (Tuesday)

Teacher: Karen Minzer

Grades: 6, 7, 8, 9, 10, 11, 12

Class Schedule: Tuesdays Only

Class Time: 1:00 – 2:30 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$10

Description:

This course combines an introduction to masterpieces of Art History and World History. Art monuments, from the Renaissance to the modern period, are presented alongside the development of European political theater and world-wide colonialization through 20th century wars. Works by Michelangelo, Rembrandt, the Impressionists, van Gogh, Picasso, and many other artists are combined with discussion in the context of their historical and social setting. Suitable for both Middle School and High School, as essay assignments are tailored to individualized interests. Laptop or ipad are suggested for notes.

Class format: Slide-illustrated lectures, student presentations and class discussion of textbooks.

Evaluations: Brief essay topics will be assigned to each students to share in class, based on their personal interests. Exams will consist of slide identifications, comparisons, brief essays explaining the significance of the artworks and events, multiple choice, short answer questions, and extra credit. Blue Book required.

Prerequisites:

None

Homework:

Students can expect to spend 1-3 hours per week.

Class Materials:

Textbook: Robert Strayer, *Ways of the World*, Vol. 2, 2nd Edition ISBN-13: 978-0312583491

Textbook: Cole, Bruce. *The Informed Eye: Understanding Masterpieces of Western Art*. Lanham, MD: Ivan R. Dee, 1999

Bound composition book
Blue Book
Colored pencils
Pens, pencils
Optional: Laptop or Tablet

NOTE: The 2nd Edition of this *Ways of the World* is much less expensive.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Electives

Computer Programming

Teacher: Collin Eye

Grades: 6, 7, 8, 9, 10, 11, 12

Class Schedule: Tuesdays Only

Class Time: 2:45 – 4:00 pm

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$702.00

\$0

Description:

Have you ever wondered how a computer works? We use computers everyday, but for many they remain a black box, a magical device which can display images and video, play music and games, hold all our data and send it out over the Internet. If you learned how the magic behind this machine worked you could do anything imaginable! Fortunately, computers are not actually mysterious, in fact, they are quite simple; all they do is a bit of math and logic, which anyone can learn.

Our class focuses on learning how the parts of a computer work. Some of these parts you have heard about, Central Processing Unit (CPU), Random Access Memory (RAM), Storage (HardDrive); however others may be totally new: register, cache, arithmetical-logic-unit, memory-management-unit. You learn how to manipulate these parts to do what you want them to by programming: the art of transforming data. We cover everything from the lowest level of how electricity flows thru the computer, to the highest level where we can speak to the computer in human-designed programming languages.

The first semester is focused on becoming familiar with a computer, and how we interact with it to write and run programs. The second semester moves on to building more advanced programs by interfacing with the operating system and drawing 2D graphics to the screen.

You will learn about:

- The C programming language
- The logic implemented in circuits and how we use it to move and transform data.
- Data structures, how we organize and think about data in the computer's memory.
- How to think about problems mathematically, and represent processes in an algorithmic way.

Some example projects:

- Simple games such as tic-tac-toe, rock-paper-scissors, connect4
- Random number generators
- Text adventures
- Sentence, image, and music generators
- Conway's Game of Life
- 2D video games!

Students will have access to video lectures which cover the topics. Class time will be spent asking questions, experimenting with computers, discussing ideas with classmates, and showing off projects. There will be weekly assignments which students are expected to be to complete before class.

Prerequisites:

None

Homework:

Students can expect to spend 1-3 hours per week.

Class Materials:

Every student is expected to have a dedicated computer on which they can program. I recommend the Raspberry Pi 3, as they're much cheaper than other computers, and are easy to experiment with. In addition to the computer they'll also need a monitor, keyboard, and mouse.

Payment Options:

1. Full tuition of \$702.00 due at time of registration.
2. Semester tuition of \$351 due at time of registration and second semester payment of \$351 due by January 15th
3. Monthly payments of \$78. First month is due at time of registration. Subsequent monthly payments of \$78 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Creative Problem Solving

Teacher: Mary Arme

Grades: 9, 10, 11, 12

Class Schedule: Thursdays Only

Class Time: 1:00 – 2:30 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$603.00

\$30

Description:

Learn to redefine the problems and opportunities that you encounter, generate ideas using divergent thinking techniques, and build a portfolio of soft skills that are relevant to success in work, school, and life!

Loosely based on the concepts of the Odyssey of the Mind program, this class is designed to help give students the tools to transform their inner creativity into solutions for the types of problems and opportunities encountered in real life. Class members will work in groups in class to solve quick spontaneous problems as well as more detailed long-term problems. Through fun puzzles and challenges, we will explore creative problem solving and divergent thinking techniques, learn about convergent thinking processes and idea evaluation methods, and build important skills, such as teamwork, communication, problem solving, time management, and more.

We will work on developing/enhancing the following skills:

- Defining a problem/opportunity (e.g. determining objectives, framing criteria, etc.)
- Idea generation techniques (e.g. brainstorming, SCAMPER, reverse thinking, etc.)
- Idea analysis techniques (e.g. checklists, decision matrix, paired comparison, etc.)
- Creative methods (e.g. observation, making connections, thinking hats, etc.)
- Teamwork (e.g. collaboration, adaptation, “yes and...”, group communication, etc.)
- Project management and time management

Prerequisites:

None

Homework:

None

Class Materials:

No textbook required
Supply fee of \$30 allows the instructor to provide resources.

Payment Options:

1. Full tuition of \$603.00 due at time of registration.
2. Semester tuition of \$302 due at time of registration and second semester payment of \$302 due by January 15th
3. Monthly payments of \$67. First month is due at time of registration. Subsequent monthly payments of \$67 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Critical Thinking

Teacher: Laura Woolley

Grades: 6, 7, 8

Class Schedule: Wednesday Only

Class Time: 1:00 – 2:15 pm

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$720.00

\$0

Description:

This class teaches students how to critically examine ideas, philosophies, and current events. Students learn how to use and develop higher-order thinking skills in all areas of life. In addition, they learn about several different philosophers and their interesting perspectives on the world.

Students learn how to:

- Recognize simple forms of argument
- Identify logical fallacies in oral arguments and all forms of media presentation
- Determine common propaganda techniques used in advertising, politics and other media

- Critical thinking is a skill that must be practiced in order to develop effectively. Class discussion is essential in helping to develop this skill. Students learn to think critically by expressing their opinions and hearing rebuttals from their classmates, plus listening to the discussions among their classmates.

Prerequisites: None

Homework: Students can expect to spend 1-3 hours per week.

Class Materials: **NEW Textbook:** *The Art of Argument: An Introduction to the Informal Fallacies* by Aaron Larsen and Joelle Hodge, ISBN-10: 1-600-51018-3 ISBN-13: 978-1-60051-018-2
 Publisher: Classical Academic Press; Student Edition edition (January 1, 2010), 247 pages.

1 1/2" binder
 Lined paper
 A set of 5 dividers
 Index cards
 2 pencils

NOTE: Each student needs to bring with them on the first day of class the class materials listed below and a NEW copy of the textbook. The textbook has consumable exercises.

Payment Options:

4. Full tuition of \$720.00 due at time of registration.
5. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
6. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Introduction to Formal Logic

Teacher: Laura Woolley

Grades: 6, 7, 8

Class Schedule: Monday/Wednesday

Class Time: 9:30 – 10:45 am

Duration: 2.5 hours per week, 32 wks

Fee(s):	Full Tuition	Supply Fee
	\$720.00	\$0

Description: After providing an introductory overview of logic fundamentals, students will study propositions and their relationships. Students translate statements from ordinary language to categorical syllogism and test these arguments for validity. Concepts are cumulatively mastered, each new idea requiring the student to employ concepts from previous lessons. Students also learn about the importance of using clear, precise, and purposeful terms in their assertions and arguments. Understanding the role language plays in all arguments is essential. Defining terms is a must when practicing logic!

Some of the concepts covered include:

- Formal vs. informal logic
- Deductive vs. inductive reasoning
- Categorical vs. propositional logic
- The Three Acts of the Mind
- Relationships of Opposition
- Relationships of Equivalence
- Syllogisms
- Defining terms

The skills gained in this class help students to more fully evaluate information encountered in higher-level education. Additionally, they should be able to draw their own conclusions, rooted in the basic understanding of what constitutes a valid argument and what does not.

Prerequisites: None

Homework: Students can expect to spend 1-3 hours per week.

Class Materials: **NEW Textbook:** ?????

1 1/2" binder
 Lined paper

A set of 5 dividers
Index cards
2 pencils

NOTE: Each student needs to bring with them on the first day of class the class materials listed below and a NEW copy of the textbook. The textbook has consumable exercises.

Payment Options:

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15th
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

LEGO Mechanisms

Teacher: Laura Woolley

Grades: 6, 7, 8

Class Schedule: Mondays Only

Class Time: 1:00 – 2:30 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$900.00

\$0 - supply fee is included in tuition

Description:

Students learn how to build machines and mechanisms using the LEGO® Technic system and the LEGO Power Functions motors and accessories. Learn the foundations of LEGO® Technic building, from simple machines to advanced mechanics. Gain unique insight into mechanical principles like torque, power translation and gear ratios. LEGO mechanisms can work as building blocks to create more complex creations.

Students learn how to:

- Create sturdy connections that can withstand serious stress.
- Re-create specialized LEGO® pieces like castings and u-joints
- build solutions like Schmidt and Oldham couplings, when no standard piece will do.
- Learn how to employ simple ideas such as cam mechanisms, ratchets, and basic four-wheel drive to make larger, more complex machines

With the knowledge gained in this class, students can apply these foundations to any number of simple machines, wheeled vehicles, and creative contraptions using LEGO® Technic and LEGO Power Functions!

Prerequisites: None

Homework: None

Class Materials: None. All supplies and materials are provided by the teacher.

Payment Options:

1. Full tuition of \$900.00 due at time of registration.
2. Semester tuition of \$450 due at time of registration and second semester payment of \$450 due by January 15th
3. Monthly payments of \$100. First month is due at time of registration. Subsequent monthly payments of \$100 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Ludology (Fall semester)

Teacher: Collin Eye

Grades: 7, 8, 9, 10, 11, 12

Class Schedule: Tuesday Only

Class Time: 4:00 – 5:00 pm

Duration: 1 hour per week, 16 weeks

Fee(s):

Full Tuition

Supply Fee

\$270.00

\$0

Description: This class will meet for the Fall semester and may continue in the Spring, with additional registration happening in December.

This class can serve as a high school elective, or a humanities credit.

Games such as Chess and Go have been with us for ages, but computers have given games a new expressive ability to explore ideas and tell stories only possible in an interactive medium. It's important to think critically about any media we consume, and while we have a rich history of doing this with literature, art, music, and film, far too little thought is put into how and what video games communicate.

We play and discuss several genres of games, each type offering unique perspectives:

Games that

- * improve problem solving and critical thinking,
- * present thought experiments about how time and space behave
- * foster a sense of empathy by taking on other roles in life,
- * allow experimenting with the consequences of one's actions
- * require planning and strategic thinking
- * explore themes of choice and fate

Students will do "close readings" of games and analyze how the game communicates ideas thru the mechanics of play. We will play and discuss games in class, and there will be weekly assignments of videos, lectures, or writings on games. Students will also write several analysis papers on these games.

Prerequisites: None

Homework: 1-3 hours since they'll have some writing/reading/watching assignments.

Class Materials: None

Payment Options:

1. Full tuition of \$270.00 due at time of Fall registration, since this is only a Fall semester class.
2. Monthly payments of \$68. First month is due at time of registration. Subsequent monthly payments of \$68 on 9/1, 10/1, 11/1. No tuition is due in December.

Middle School Public Speaking

Teacher: Julie Poe

Grades: 6, 7, 8

Class Schedule: Mondays Only

Class Time: 1:00 – 2:30 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$450.00

\$30

Description: This class is designed to prepare students for those many situations in careers, community service, college courses, and even high school classes where they will be expected to speak in front of a few or perhaps many people. My goal is for students to emerge from this class full of self-confidence.

This class does not involve competition and is not focused on debate. We will learn some of the principles of effective public speaking, analyze some great speeches, gain some tools to deal with anxiety, and have frequent opportunities for impromptu speaking.

Prerequisites: None

Homework: Students can expect to spend 1-2 hours per week.

Class Materials: Internet access at home to use many resources, including online videos.

A three-ring binder devoted only to this class

Notebook paper

Pens or pencils

Colored pencils

No textbook required

Supply fee of \$30 allows the instructor to provide resources.

Payment Options:

1. Full tuition of \$450.00 due at time of registration.
 2. Semester tuition of \$225 due at time of registration and second semester payment of \$225 due by January 15th
 3. Monthly payments of \$50. First month is due at time of registration. Subsequent monthly payments of \$50 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
-

Online Computer Programming

Teacher: Collin Eye

Grades: 6, 7, 8, 9, 10, 11, 12

Class Schedule: self-paced

Class Time: self-paced

Duration: self-paced, 32 weeks

Fee(s):

Full Tuition

Supply Fee

\$702.00

\$0

Description:

This course is one-on-one, online instruction in computer programming, catered to the experience level of each student. Whether you're completely new to programming, have experience with programming in languages other than C, or want to continue your programming education, this is the class for you. Programming is an art form, and like any art form, mastery requires self-discipline, practice, and a bit of guidance.

You'll have access to videos on a variety of topics such as basic computer architecture, the C programming language, cryptography, systems programming in various operating systems, physics simulation, 2D game design, and many more. Each video is accompanied by exercises which will help you reinforce the topics with hands on experience. Students are able to explore the videos matching their skill-level and interests at their own pace.

New students will learn:

- The C programming language
- The logic implemented in circuits and how we use it to move and transform data.
- Data structures, how we organize and think about data in the computer's memory.
- How to think about problems mathematically, and represent processes in an algorithmic way.

New students will learn how to implement projects such as:

- Simple games such as tic-tac-toe, rock-paper-scissors, connect4
- Random number generators
- Text adventures
- Image and music generators
- RNA-DNA translation and transcription
- Conway's Game of Life

Advanced students will learn:

- Project architecture
- The math used to make graphics and simulate worlds
- Advanced data structures such as trees, graphs, and hash tables.
- How to develop cross-platform code-bases
- Computer networking
- Multithreading for faster computations
- A variety of topics from computer science like cryptography, language-theory, complexity theory, artificial intelligence

Advanced students will take these topics and develop their own projects which put them to use. They will also see how the following can be implemented:

- Ray tracing 3D-graphics
- Equation solvers and function plotters
- Cross-platform game engines
- Sentence parsers and generators

Students will be able to email me with questions anytime, schedule video-conferencing, or request videos on particular subjects they're interested in. I encourage everyone to develop their own projects, and seek advice on how to achieve their goals. This allows you to always reach a little beyond your current ability, and learn how an experienced programmer confronts new challenges.

Prerequisites:

None

Homework: Students can expect to spend 1-3 hours per week.

Class Materials: Every student is expected to have a dedicated computer on which they can program. I recommend the Raspberry Pi 3, as they're much cheaper than other computers, and are easy to experiment with. In addition to the computer they'll also need a monitor, keyboard, and mouse.

Payment Options:

1. Full tuition of \$702.00 due at time of registration.
 2. Semester tuition of \$351 due at time of registration and second semester payment of \$351 due by January 15th
 3. Monthly payments of \$78. First month is due at time of registration. Subsequent monthly payments of \$78 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
-

Robotics

Teacher: Laura Woolley

Grades: 9,10,11,12

Class Schedule: Thursdays Only

Class Time: 9:30 – 12:15 pm

Duration: 2.75 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$1152.00

\$0 – class supply fee is included in tuition

Description:

Robotics is a hands-on, lab-based course that introduces the basic concepts of robotics. Students focus on the construction and programming of robots. Course information is tied to lab experiments. Students work in groups to build and test increasingly more complex robots. At the end of each semester, students participate in a robot contest to see which design is the most robust and demonstrates good design. We are using a robotic design system as our platform; this eliminates the need to build parts from raw materials or the need to have access to a machine shop. Students are divided into groups to complete a variety of robot construction and programming activities.

In this course, students will:

- Explore different robotic applications
- Learn the basic components and building blocks of robots
- Develop robot design and fabrication skills
- Learn how to program robots

Prerequisites: None

Homework: None

Class Materials: None. All supplies and materials are provided by the teacher.

Payment Options:

1. Full tuition of \$1152.00 due at time of registration.
 2. Semester tuition of \$576 due at time of registration and second semester payment of \$576 due by January 15th
 3. Monthly payments of \$128. First month is due at time of registration. Subsequent monthly payments of \$128 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
-

Speech and Debate

Teacher: Ian Seamans

Grades: 9,10,11,12

Class Schedule: Thursdays Only

Class Time: 1:00 - 2:30 pm

Duration: 1.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$450.00 \$30

Description: This class fulfills the speech credit required for high school. Equally important, it prepares students for those many situations in careers, community service, college courses, and even high school classes where they will be expected to speak in front of people.

This class will focus equally on debate and public speaking. In-class debates will be held, and we will learn both the informal and formal rules of debate. We will also learn some of the principles of effective public speaking, analyze some great speeches, gain some tools to deal with anxiety, and have frequent opportunities for impromptu speaking.

Prerequisites: None

Homework: Students can expect to spend 1 hour per week.

Class Materials: Internet access
A three-ring binder
Notebook paper
Writing utensils

No textbook required
The supply fee of \$30 allows the instructor to provide resources and materials.

Payment Options:

1. Full tuition of \$450.00 due at time of registration.
2. Semester tuition of \$225 due at time of registration and second semester payment of \$225 due by January 15th
3. Monthly payments of \$50. First month is due at time of registration. Subsequent monthly payments of \$50 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Fine Arts

Pop, Punk, Urban and Cool Contemporary Art!

Teacher: Mandy Olson

Grades: 6, 7, 8,

Class Schedule: Monday Only

Class Time: 2:45 – 4:00 pm

Duration: 1.25 hours per week, 32 wks

Fee(s):	Full Tuition	Supply Fee
	\$450.00	\$10

Description: This isn't your grandma's art class! Learn about artists who create comic book art, urban vinyl, graffiti art, pop art, geometric art, abstract art and more! Students will learn important terms and concepts as well as creating their own totally awesome works of art! Students are welcome to wear a smock, if desired. Please bring drawing supplies to every class. Painting supplies will be requested when needed. Some supplies may need to be replenished throughout the course.

All other supplies will be provided.

Prerequisites: None

Homework: Students can expect occasional homework

Class Materials: Gouache paint set
Basic paint brush set (should include wash and round brush)
Paint palette
Water cup/tub
Colored pencils
Fineliner pen (like a micron pen), black
Sketching pencil set
Ruler
Scissors
Mixed Media pad: 11x14

Sketchbook: 9x12
Canvas: 16x20 or 12x24

Payment Options:

1. Full tuition of \$450.00 due at time of registration.
 2. Semester tuition of \$225 due at time of registration and second semester payment of \$225 due by January 15th
 3. Monthly payments of \$50. First month is due at time of registration. Subsequent monthly payments of \$50 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
-

Multimedia Art - Middle School

Teacher: Mandy Olson

Grades: 6, 7, 8,

Class Schedule: Wednesday Only

Class Time: 9:30 – 10:45 am

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$450.00

\$0 - supply fee is included in tuition

Description:

This is an art class with something for everyone! Students will draw, paint and sculpt their way to becoming more experienced artists and explore various media and basic techniques to create original works of art! Students will learn basic art concepts and terms. We will discover artists from different time periods and cultures. Students are welcome to wear a smock, if desired. Please bring drawing supplies to every class. I will request paint supplies when needed. Some supplies may need to be replenished throughout the course.

All other supplies will be provided.

Prerequisites:

None

Homework:

Students can expect occasional homework

Class Materials:

Basic paint brush set (should include wash and round brush)
Sketching pencil set
Colored Pencils
Watercolor set
White eraser
Ruler
Water cup
Chalk pastels
Blending stump
Scissors
Sketchbook: 9x12
Mixed Media pad: 11x14
Art box/tackle box/caboodle suggested*

Payment Options:

1. Full tuition of \$450.00 due at time of registration.
 2. Semester tuition of \$225 due at time of registration and second semester payment of \$225 due by January 15th
 3. Monthly payments of \$50. First month is due at time of registration. Subsequent monthly payments of \$20 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
-

Multimedia Art - High School

Teacher: Mandy Olson

Grades: 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 11:00 – 12:15 pm

Duration: 2.5 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$657.00

\$0 - supply fee is included in tuition

Description: Are you interested in art, but not sure where to begin? Would you like to further your understanding of techniques and materials? This is a class for novice and experienced artists alike! Gain experience with techniques, learn about processes of art and create original drawings, paintings and sculptures. Get familiar with charcoal, pencil, paint, clay and more! Learn the elements and principles of art along with other important terms to be able to discuss and critique art. Discover artists across time, media and culture. Anyone can be an artist! Let me show you how!

This class will fulfill the Fine Arts credit needed to graduate. Students are welcome to wear a smock to class, if desired. Please bring drawing supplies to every class. Painting/sculpting supplies will be requested when needed. Some supplies may need to be replenished throughout the course.

All other supplies will be provided.

Prerequisites: None

Homework: Students can expect occasional homework

Class Materials: Compressed charcoal
Paint palette
White eraser
Sketchbook: 9x12
Mixed Media pad: 11x14
Fineliner pen (like a micron pen), black
12" ruler
Watercolor set
Gouache paint set
Sketching pencil set
Blending stump
Water tub/cup
Set of basic sculpting tools
Set of basic brushes that includes wash brush and round brush
Art box/tackle box/caboodle suggested*

Payment Options:

1. Full tuition of \$657.00 due at time of registration.
2. Semester tuition of \$328 due at time of registration and second semester payment of \$328 due by January 15th
3. Monthly payments of \$73 First month is due at time of registration. Subsequent monthly payments of \$73 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.

Fall Improv (Thursday)

Teacher: Valarie Atwood (Arts & Minds)

Grades: 7, 8, 9, 10, 11, 12

Class Schedule: Thursday Only

Class Time: 2:45 - 4:00 pm

Duration: 1.25 hour per week, 16 wks

Fee(s):

Full Tuition

Supply Fee

\$300.00

\$30

Description:

This class will meet for the Fall semester and may continue in the Spring.

This class can serve as a high school elective.

Act without preparation, practice flexibility, react creatively and learn off-the-top-of-your-head techniques. We improvise every day. Plans change without warning, requiring us to be spontaneous problem solvers. Working within boundaries while still generating lots of ideas and having fun, students will gain the ability to tap into their creative potential, building self-confidence and developing skills that can be utilized for a lifetime.

Students will showcase their newly found skills at the end of this class for family and friends.

Performance Date: Dec. 13, 2018

Performance Time: 6:30pm – 7:30pm

Location: The Stage Door (2637 Summit Ave., Suite 305 Plano, Tx 75074)

Prerequisites: None

Homework: None

Class Materials: The supply fee of \$30 allows the instructor to provide resources and materials.

Payment Options:

1. Full tuition of \$300.00 due at time of Fall registration, since this is only a Fall semester class.
 2. Monthly payments of \$75. First month is due at time of registration. Subsequent monthly payments of \$75 on 9/1, 10/1. 11/1. No tuition is due in December.
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Fall Improv (Wednesday)

Teacher: Valarie Atwood (Arts & Minds)

Grades: 6, 7, 8, 9, 10, 11, 12

Class Schedule: Wednesdays Only

Class Time: 1:00 – 2:15 pm

Duration: 1.25 hour per week, 16 wks

Fee(s):	Full Tuition	Supply Fee
	\$300.00	\$30

Description: This class will meet for the Fall semester and may continue in the Spring.

This class can serve as a high school elective.

Act without preparation, practice flexibility, react creatively and learn off-the-top-of-your-head techniques. We improvise every day. Plans change without warning, requiring us to be spontaneous problem solvers. Working within boundaries while still generating lots of ideas and having fun, students will gain the ability to tap into their creative potential, building self-confidence and developing skills that can be utilized for a lifetime.

Students will showcase their newly found skills at the end of this class for family and friends.

Performance Date: Dec. 12, 2018

Performance Time: 6:30pm – 7:30pm

Location: The Stage Door (2637 Summit Ave., Suite 305 Plano, Tx 75074)

Prerequisites: None

Homework: None

Class Materials: The supply fee of \$30 allows the instructor to provide resources and materials.

Payment Options:

1. Full tuition of \$300.00 due at time of Fall registration, since this is only a Fall semester class.
 2. Monthly payments of \$75. First month is due at time of registration. Subsequent monthly payments of \$75 on 9/1, 10/1. 11/1. No tuition is due in December.
-

Fall Drama

Teacher: Valarie Atwood (Arts & Minds)

Grades: 6, 7, 8, 9, 10, 11, 12

Class Schedule: Wednesdays Only

Class Time: 2:15 – 3:30 pm

Duration: 1.25 hour per week, 16 wks

Fee(s):	Full Tuition	Supply Fee
	\$300.00	\$30

Description: This class will meet for the Fall semester and may continue in the Spring.

This class can serve as a high school elective.

Get ready to act! Designed for both new and experienced young actors, this course explores a wide range of standard acting techniques and skills, including warm-ups and relaxation, creating environments and characters, and scene development. Using theater games, students will learn how to tell a story, utilize their imagination, tap into their concentration and respond to their fellow players.

Self-confidence, critical thinking, problem solving, creativity, teamwork and self-discipline are only a few byproducts of this class. Acting terminology and fun memorization techniques will also be covered. Short scenes or scenarios developed by the students will be created and performed at the end of this course.

Performance Date: Dec. 12, 2018

Performance Time: 7:30pm – 8:30pm

Location: The Stage Door (2637 Summit Ave., Suite 305 Plano, Tx 75074)

Prerequisites: None

Homework: None

Class Materials: The supply fee of \$30 allows the instructor to provide resources and materials.

Payment Options:

1. Full tuition of \$300.00 due at time of Fall registration, since this is only a Fall semester class.
2. Monthly payments of \$75. First month is due at time of registration. Subsequent monthly payments of \$75 on 9/1, 10/1, 11/1. No tuition is due in December.

Physical Education

Yoga & Creative Writing (High School)

Teacher: Karen Minzer

Grades: 9, 10, 11, 12

Class Schedule: Tuesday Only

Class Time: 2:45 – 4:00 pm

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$630.00

\$20

Description:

This course offers basic instruction in the systemized study of yoga asana and breathing practice. A brief survey in history of world literary traditions for contemplative writing will enhance students' observation skills and self-confidence. Writing exercises and literary readings will focus on details of images as metaphor for thought.

Format: 30 minutes guided yoga practice, 15 minutes writing, 30 minutes student reading and discussion. A final group writing exercise completes the class, recorded by Instructor. Assignments for reading and writing exercises precede each class.

Dress: Loose clothing suitable for flexible movement. No skirts or dresses.

Prerequisites: None

Homework:

A monthly portfolio is delivered in packets of 7 pages of creative work generated in and out of class. Final Portfolio consists of 20 pages of revised and polished work, generated from class and out of class assignments. Additionally, each student will take turns facilitating an individualized yoga class as a final exam in yoga. One critical response paper.

Class Materials:

Yoga mat *and* blanket. Additional props will be provided by instructor.
In class writing journal exclusive to this class. Device use acceptable for writing and reading.

Payment Options:

13. Full tuition of \$630.00 due at time of registration.
 14. Semester tuition of \$315 due at time of registration and second semester payment of \$315 due by January 15th
 15. Monthly payments of \$70. First month is due at time of registration. Subsequent monthly payments of \$70 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
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Yoga & Creative Writing (Middle School)

Teacher: Karen Minzer

Grades: 6, 7, 8

Class Schedule: Monday Only

Class Time: 9:30 - 10:45 am

Duration: 1.25 hours per week, 32 wks

Fee(s):

Full Tuition

Supply Fee

\$630.00

\$20

Description:

This course offers basic instruction in the systemized study of yoga asana and breathing practice. A brief survey in history of world literary traditions for contemplative writing will enhance students' observation skills and self-confidence. Writing exercises and literary readings will focus on details of images as metaphor for thought.

Format: 30 minutes guided yoga practice, 15 minutes writing, 30 minutes student reading and discussion. A final group writing exercise completes the class, recorded by Instructor. Assignments for reading and writing exercises precede each class.

Dress: Loose clothing suitable for flexible movement. No skirts or dresses.

Prerequisites:

None

Homework:

A monthly portfolio is delivered in packets of 7 pages of creative work generated in and out of class. Final Portfolio consists of 20 pages of revised and polished work, generated from class and out of class assignments. Additionally, each student will take turns facilitating an individualized yoga class as a final exam in yoga. One critical response paper.

Class Materials:

Yoga mat *and* blanket. Additional props will be provided by instructor.
In class writing journal exclusive to this class. Device use acceptable for writing and reading.

Payment Options:

16. Full tuition of \$630.00 due at time of registration.
17. Semester tuition of \$315 due at time of registration and second semester payment of \$315 due by January 15th
18. Monthly payments of \$70. First month is due at time of registration. Subsequent monthly payments of \$70 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.