

# Gray Matter Fall 2018 - Course Catalog

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## Tuesday/Thursday

### **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](http://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 15<sup>th</sup>
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 15<sup>th</sup>
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

**Fee(s):**

**Full Tuition**

**Supply Fee**

\$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 CO<sub>2</sub>, 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 15<sup>th</sup>
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.

## 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 15<sup>th</sup>
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](http://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 15<sup>th</sup>
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.

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## Algebra 2 and Beyond

**Teacher:** Habib Saidane

**Grades:** 9, 10, 11, 12

**Class Schedule:** Tuesday/Thursday

**Class Time:** 9:30 am – 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](http://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/](http://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.

**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 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 15<sup>th</sup>
  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.
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## 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](http://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/](http://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 15<sup>th</sup>
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 15<sup>th</sup>
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 15<sup>th</sup>
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.

## 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 15<sup>th</sup>
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 15<sup>th</sup>
  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.
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**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 15<sup>th</sup>
  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.
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**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 15<sup>th</sup>
  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.
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