

Classes at Town North Presbyterian Church 2017- 2018 School Year

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We welcome to Town North new teacher Kim Wright. New classes or classes taught by a new teacher are high-lighted. **New this year: Calculus**

Please note the following:

- Grades listed for all classes are strongly suggested guidelines for placement.
- All classes are held on Thursday at Town North Presbyterian Church in Richardson (1776 N. Plano Rd) 2 blocks south of the intersection of Campbell and Plano Rd.
- Please contact individual class teachers for more information or to register.

WRITING

Pre-Academic Writing

Instructor: Deborah McCollum

214-726-6311

MrsMcCollumTNPC@gmail.com

Recommended for 7th- 8th grades. The class objective is to strengthen the skills that form the foundation of good writing. In this introductory paragraph writing class, students will develop the fundamental skills for good descriptive, informative and narrative writing. Learning to use sentence variety and to identify many of the problems that occur in sentence formation, the student will apply good grammar techniques to create well-formed paragraphs. Texts: *Write Shop I*, grammar text to be determined.

Monthly Tuition: \$45 Materials Fee: \$10

Time: 9:30 – 10:30 am

Grammar Lab

Instructor: Kim Wright

972-740-5811

MrsWrightTNPC@gmail.com

Recommended for 7th- 9th grades. This class will provide a strong foundation in English grammar. Parts of speech, parts of the sentence, and application of punctuation and capitalization rules will be covered in extensive detail. Students will also learn the basics of sentence diagramming to apply the grammar knowledge learned. Additionally, students will build a grammar reference book throughout the year. Text: *Analytical Grammar*. The student workbook will be provided by the instructor and is a part of the materials fee.

Monthly Tuition: \$45 Materials Fee: \$55

Time: 8:30 – 9:30 am

Academic Writing 1

Instructor: Charlotte Lasater

214-763-0240

MrsLasaterTNPC@gmail.com

Recommended for 8th – 9th grades After a short review of basic grammar skills, students will be given the opportunity to make a year-long transition from writing well-informed paragraphs to building a well-organized essay. Expanding on the skills learned in Pre-Academic Writing, students will explore a wide variety of composition styles. In-class exercises and discussions will also be used to develop an understanding of the informal logical fallacies that obscure effective communication.

Text used: *Write Shop II*

Monthly Tuition: \$45

Time: 10:30 -11:30 am

Academic Writing 2

Instructor: Rhonda Helmreich

972 -713-7947

MrsHelmreichTNPC@gmail.com

Recommended to be taken in tandem with Beginning High School Literature or before taking upper high school literature classes.

Open to students in the 9th and higher. Students in this class will learn the essay building process. Using the short story, the students annotate, collect and organize vital information into a usable format in order to create strong and compelling thesis statements. The student will be taught how to develop a logical, coherent and well-supported argument in favor of the stated the thesis. Preparation for the writing portion of the SAT will also be addressed. Emphasis is on a variety of writing techniques to strengthen writing skills for academic situations so that no student will ever have to stare at a blank page again wondering how to begin the writing process. Texts: *Windows to the World*, *The Elegant Essay Writing Lessons: Building Blocks for Analytical Writing*

Monthly Tuition: \$45

Time: 10:30 – 11:30 am

Academic Writing 3

Instructor: Kim Wright

972-740-5811

MrsWrightTNPC@gmail.com

Recommended for 11th-12th grades. Prerequisite for admittance is Academic Writing 2 or a submission of a five- paragraph essay demonstrating basic skill in thesis construction, introduction, conclusion, and paragraph development.

In this upper-level class, students will be given the opportunity to develop the writing skills necessary for transition into college-level writing. Focus will be given to studying and developing the rhetorical elements, such as consideration of one's audience, and the effective use of reason, emotion, and word choice to create a convincing argument. This will be done through the analysis of non-fiction essays, discussion of rhetorical elements, and required written exercises. The written assignments required in this college-prep class will include various types of essays, fully-developed research papers requiring MLA citation, and in-class timed essays.

Monthly Tuition: \$45 Materials Fee \$10 Time: 9:30 – 10:30 am or 11:30 – 12:30pm

LITERATURE

(Junior High Level)**Jr. High Literature 1** (formerly Jr. High Lit) Instructor: Jaree DeMetrotion

972-569-7437

MrsDeMetrotionTNPC@gmail.com

Open to students in the 7th and 8th grades. This course is designed to be a first formal experience for literature. Key literary concepts like plot and character analysis will be introduced. Enriching discussion, book projects, writing and critical thinking will prepare the student for success within a warm, learning community. Several book titles included: *The Bronze Bow*, *Bridge to Terabithia*, *Hatchet*, *Redwall* and *The Prince and the Pauper*.

Monthly Tuition: \$45 Materials Fee: \$10 Time: 11:30 – 12:30 pm

The classes listed below are in the recommended order. Taking the corresponding history with the literature is also highly recommended.

Jr. High Literature 2 (formerly Intro Literature) Instructor: Jaree DeMetrotion

972-569-7437

MrsDeMetrotionTNPC@gmail.com

Open to students in the 8th and 9th grades.

Intro to Literature provides a broad experience to a variety of classic books for middle school or young high school students. It transitions students into analysis of literary concepts and themes through essays, tests, and projects. This transition takes place with classic books like *To Kill a Mockingbird*, *The Red Badge of Courage*, *The Adventures of Tom Sawyer*, and several other classic books. While preparing students for the academic rigors of high school, this course remains strongly personal and engaging in its approach to literature and encourages the expression and discussion of opinions in a welcoming environment. This course is appropriate for all students in need of preparation for high school literary studies. (This course is a complement to American History)

Monthly Tuition: \$45 Materials Fee: \$10 Time: 8:30 – 9:30 am

(High School Level)**Beginning High School Lit.**

Instructor: Jaree DeMetrotion

972-569-7437

MrsDeMetrotionTNPC@gmail.com

Open to students in the 9th and 10th grades

Beginning High School Literature provides a broad experience to a variety of classic books for young high school students and transitions students into analysis of literary concepts and themes through essays and tests. This transition takes place with classic books like *Jane Eyre*, *Romeo and Juliet*, *Oliver Twist*, and several other classic books. While preparing students for the academic rigors of high school, this course remains strongly personal and engaging in its approach to literature and encourages the expression and discussion of opinions in a welcoming environment. This course is appropriate for all students in need of preparation for upper level high school literary studies.

Monthly Tuition: \$45 Materials Fee: \$10 Time: 9:30 – 10:30 am

American Literature
MrsHelmreichTNPC@gmail.com

Instructor: Rhonda Helmreich

972 -713-7947

Open to students in the ninth grade and higher. This class introduces students to the richness of American Literature reflecting the unique dynamism of our culture and history as exemplified in the rollicking humor of Twain, the moral consciousness of Hawthorne's, *The Scarlet Letter*, and the simple beauty of rural life admixed with universal facets of the human condition from the play "*Our Town*". The basics of worldview thinking are established through literature studies, from the transcendentalism of *Walden Pond* to the naturalism of *Moby Dick*. Invigorating class discussion and in-depth literary analysis develops student's critical thinking skills. Writing assignments offer opportunities for logical assessment of theme and characterization, along with logical argument on the deeper meaning and import of the story. Uses many books from Sonlight 400 (This course is a complement to American Government.)

Monthly Tuition: \$45

Time: 8:00 – 9:30 am or 1:30 – 3:00 pm

20th Century Literature
MrsHelmreichTNPC@gmail.com

Instructor: Rhonda Helmreich

972 -713-7947

Open to students in tenth through twelfth grades. This course examines the mindset of the 20th century through modern classics such as *The Old Man and the Sea*, *The Great Gatsby*, and *The Metamorphosis*. A firm foundation of the Christian worldview is established using *Mere Christianity* empowering students to formulate a personal statement of Christianity and the theistic worldview. Anchored in the bedrock of theism, students will then explore and analyze the fundamental worldviews displayed in 20th century literature utilizing the worldviews outlined in James Sire's, *The Universe Next Door*. Literary analysis of themes, characters, plot, historical and social context, symbolism, and style enable students to compare, judge, and evaluate the philosophies presented in each novel. Writing assignments focus on logical evaluation of the worldview presented in the novel compared with a biblical worldview. Uses many books from Sonlight 300 (This course is a complement to 20th Century History.)

Monthly Tuition: \$45 Materials Fee: \$20

Time: 11:30 – 12:45 pm

British Literature
MrsHelmreichTNPC@gmail.com

Instructor: Rhonda Helmreich

972 -713-7947

Open to students in eleventh and twelfth grades. This class introduces students to the full breadth and beauty of British Literature. Studying masterpieces like *Paradise Lost*, *Beowulf*, *Tale of Two Cities*, *Hamlet*, and several other classics, completes the foundation for university-level study and life. Rhetoric level literary analysis skills deepen as the students evaluate an author's message in comparison with a biblical worldview. Students participate in stimulating class discussion and write essays that focus on literary analysis at an advanced level. In addition, individual book projects encourage students to interact with a piece of literature using their unique gifts, interests and talents. Many of the novels studied are Advanced Placement level. Uses many books from Sonlight's "Survey of British Literature" 530

Monthly Tuition: \$45 Materials Fee: \$20

Time: 9:30-10:30 am

ECONOMICS, HISTORY & WORLD VIEWS

American History
MrsWalstedTNPC@gmail.com

Instructor: Barbara Walsted

972-816-5242

Open to students in the 8th - 9th grades. A survey of American History using Joy Hakim's award winning series "A History of US". This class will take a balanced approach to points made in this series. Additionally, students read several historical fiction and biographies. Using these tools, we will focus on key events and people, and seek to understand how our country was established and developed. This class will help students appreciate our heritage as well as have a better understanding of our culture and world today. (This course is a complement to either the Intro or Beginning High School Literature class.) **Estimated homework time: 2-4 hours/week - depending on how quickly students read.**

Monthly Tuition: \$45 Materials Fee: \$30

Time: 9:30 – 10:30 am

Open to students in the 11th – 12th grades. Unique in all of human history, the 20th century is the first to be fully documented, not just in word, but also in still and video images. Unprecedented changes in areas such as travel, communication, entertainment, technology, and conflict resolution radically altered life over the course of the 20th century. Through reviewing the 19th century and then covering the 20th century into the beginning of the 21st century, we see the formation and basis of conflicts and philosophies that still greatly affect our world today. A framework of 20th century events and ideas will be built from which students will make connections to see cause and effect, relating the past and present. Students will interview family and friends who have lived through events in this century to gain further insight. They will also create a time-line of their own family to make personal connections within the historical context. This survey course utilizes some core books from Sonlight's 20th Century World History Core. Resources used will include biographies, movies, film clips, eyewitness interviews, and historical fiction. (This course is a complement to 20th Century Literature.)
Monthly Tuition: \$45 Materials Fee: \$15 Time: 10:30 -11:30 am

American Government

Instructor: Jennifer Byrd

214-883-5520

MrsByrdTNPC@gmail.com

Open to students in the 10th-12th grades. This course offers an in-depth study of American civil government: how and why the government works, emphasizing the merits of a limited government. Through critical analysis, the course examines historical events and social currents and their impact on the understanding of the Constitution. This program follows much of the Sonlight Curriculum: American Government/Civics 400 History. (This course is a complement to American Literature)
Monthly Tuition: \$45 Materials Fee: \$20 Time: 10:30 – 11:30 am

Economics/Personal Finance

Instructor: Larry Walsted

972-793-3391

MrWalstedTNPC@gmail.com

Open to students in the 11th and 12th grades.
The homework is very minimal and averages approximately 1-1.5 hours a week.
This class blends together traditional economics along with the most crucial part of economics, the personal finance equation, using an exciting Dave Ramsey program designed specifically for high school students.
Economics: focuses on a practical understanding of our economy, covering both micro and macroeconomic principles – including supply and demand and how our lives are affected by government, business and banking practices.
Text: Economics – 2nd Edition.
Personal Finance: Effectively teaches students the practical applications of personal finance, using methods that are both entertaining and engaging, building a solid foundation on which to build their financial future that they will use daily. This is a new Dave Ramsey curriculum specifically designed for students in a classroom setting.
Major topics covered include:

1. Introduction to Personal Finances
2. Savings
3. Budgeting
4. Debt
5. Life after High School
6. Consumer Awareness
7. Bargain Shopping
8. Investing and Retirement
9. Insurance
10. Money and Relationships
11. Careers and Taxes
12. Giving

This class will mold the financial future of students. They will be empowered, equipped and entertained while building confidence in their own financial decision-making abilities.
The Personal Finance student workbook will be provided.
Monthly Tuition: \$60 Materials Fee \$40 Time: 11:30-1:00

Open to students in the 9th – 10th grades. It is recommended to take this class before upper level high school classes. Christians need to understand the truth of God's Word and how it applies to all areas of life – and how pop culture and social media is drawing our students away from Biblical Truth. Students need to be able to discern truth from error, whether sitting in a classroom setting or watching a movie with friends. Lightbearers is a program written by Summit Ministries that is designed to help students clearly understand the tenets of the Biblical worldview, and how those tenants compare to the leading humanistic worldviews so rampant in today's culture. Students will learn how to apply their Christian faith to every area of life: theology, philosophy, ethics, biology, sociology, psychology, law, politics, economics, and history. Some of the issues we will cover include: abortion, apologetics, cults, same-sex marriage, evolution, feminism, homosexuality, naturalism, moral relativism, pluralism, relationships, and socialism. To prepare students for TNPC HS literature classes: Islam, Secular Humanism, Marxism, New Spirituality and Postmodernism will be introduced. **Current events will also be a frequent topic of group discussion in the classroom.** The cost of curriculum (TBD mid-March) will be paid to me in advance [I'll place a bulk order for all families]. While this class is being offered at two different time slots, students will only attend one of the two classes. **Estimated homework time: 1-3 hours/week.**
Monthly Tuition: \$45 Materials Fee: \$25 Time: 8:30 – 9:30am **or** 11:30 – 12:30 pm

[College credit [3] available for this course through Bryan College - accredited]
*Open to students in the 12th grade. Understanding the Times is a digital discussion-driven worldview course designed by Summit Ministries to equip students to become champions of the Christian Faith - before heading off to any university, and/or the workforce. Our class utilizes the latest digital edition of the course with their new online app along with the flipped classroom approach [group discussion]. The writers of the program believe that those who are using this curriculum are playing a major strategic role in reclaiming our Christian youth in our current post-Christian/post-modern culture. The curriculum brings a host of Christian worldview and apologetic ideas into focus. It is designed to help students understand the system of belief of the Christian worldview and how it compares with the beliefs of other leading worldviews such as Islam, Secular Humanism, Marxism, New Spirituality, and Postmodernism. We will cover a host of hot topics in this class. **Current events will also be a frequent topic of group discussion in the classroom.*** The cost of curriculum (TBD – roughly \$50 - \$80 – some years they offer bulk discounts). I'll place a bulk subscription order for all families. *If your students would like take advantage of the college credit option for this course [Philosophy 122], the additional fee paid to Bryan College will be 3 credits at \$350. The college tuition fee won't be due until May '18. Students don't have to decide till Spring 2018 if they want to take advantage of the dual credit option.* <http://understandingthetimes.com/college-credit/> **Estimated Homework time: 1-3 hours/week**
Monthly Tuition: \$45 Materials Fee: \$25 Time: 10:30 – 11:30 am

SPEECH and HUMANITIES

Recommended for 11th-12th grades. Students will learn important communication skills through the study of interpersonal communication, group communication, and conflict management. In-class assignments will help reinforce basic principles of speech and communication. Additionally, students will be expected to prepare different types of speeches and present them to the class. This includes a group presentation, where students will learn to corroborate with others to complete and present their assignment.
Monthly Tuition: \$45 Materials Fee: \$10 Time: 1:30 – 2:30 pm

Art & Music Appreciation: Humanities for High School

MrsSchillTNPC@gmail.com

Instructor: Tammy Schill

214-728-1311

Open to students in the 9th- 12th grades this humanities class provides a fine arts elective. Johann Sebastian Bach once wrote that, "The aim and final end of music should be none other than the glory of God and the refreshment of the soul." This course provides a broad exposure to music, art and architecture focusing primarily on Western art and music from the 15th century through the present. Students will be able to recognize and discuss great works of art and music. From Bach, and Handel to Gershwin and Shostakovich, students will learn about the lives of the composers and listen to their music. They will learn about Beethoven's nine symphonies and the impact they still have. In terms of art, they will be able to recognize important works of art and know the artist as well as the style and time period. While touching on ancient and medieval art, this course will primarily focus on Renaissance through present day. Resources include: *"The Gift of Music: Great Composers and Their Influence"* by Jane Stuart Smith and Betty Carlson, *"A Child's Introduction to Art: The World's Greatest Paintings and Sculptures"* by Heather Alexander, *"The Annotated Mona Lisa"* by Carol Strickland and Masterpiece Art Cards. Care will be taken with regard to artworks chosen to be presented. My hope is that the students will grow in their appreciation for and understanding of art and music. *We will also take at least one field trip to an art museum and/or concert.* Being culturally literate is a gift to our children. Arts education helps stimulate areas of the brain and bring out creativity. "A broad education in the arts helps give children a better understanding of their world...we need students who are culturally literate as well as math and science literate." Paul Ostergard, Vice President, Citicorp.

Monthly Tuition: \$45 Materials Fee: \$20

Time: 1:30 – 2:30 pm

GEOGRAPHY

Geography

MrsSchillTNPC@gmail.com

Instructor: Tammy Schill

214-728-1311

Open to students in the 9th – 12th grades. A thorough knowledge of World Geography is increasingly essential in this age of expanding globalization. This course focuses on cultural and historical aspects of geography alongside traditional geographical knowledge. While learning the countries, river systems, mountain ranges, bodies of water and other important landmarks, the students also learn about the belief systems and heritage of the peoples living in the areas being studied. Students will learn about the political boundaries and systems of governance as well as the religious beliefs and cultural traditions of each area. Through the creative use of puzzles, games, drawing, coloring, mnemonics and review, the students will gain facility in knowing and understanding the countries and cultures of the world. Over the course of the year, the students will give oral presentations, research specialty topics, listen to outside speakers and create a Geography binder. The primary text for this class is *Cultural Geography 4th Ed.*, BJU Press. The secondary text is the *Geography Coloring Book* by Wynn Napit. It is recommended to take this course either prior to or during the study of 20th Century World History.

Monthly Tuition: \$45 Materials Fee: \$15 Time: 9:30 – 10:30 am or 11:30 – 12:30 pm

MATH

PreAlgebra

Instructor: Cindy Moser

214-557-3102

MrsMoserTNPC@gmail.com

Prerequisite: None, placement test from Math-U-See website recommended. This class covers negative numbers, order of operations, solving for the unknown, and other topics listed on the Math-U-See website.

Text: *Math U See Pre-Algebra*, specific manipulatives and components needed by students for this class currently being determined

Monthly Tuition: \$40 Materials Fee: \$10

Time: 1:30 - 3:00pm

The High School math classes will be using the math texts by Paul A. Foerster and Harold A. Jacobs. These texts are comprehensive in scope and highly rated for their clarity and logical, thorough progression of math concepts. The exercises proceed from simple, basic concepts to more challenging problems requiring critical thinking and problem solving skills.

Algebra 1

Instructor: Lori Taylor

214-870-2242

MrsTaylorTNPC@gmail.com

Prerequisite: Completion of Pre-Algebra with a grade of 'B' or better.

Course description: This course will cover the topics typically covered in a High School Algebra 1 course. Following the outline of the text, the course begins by applying the basic math operations to signed numbers, fractions, and expressions with one variable while learning the basic properties of math. Once these basic properties are mastered, the course then continues with polynomials, quadratic equations, linear equations, graphing, data/probability, radical algebraic expressions, exponents, scientific notation, inequalities, and functions, providing a comprehensive algebra course. As each lesson is covered, students will be encouraged to demonstrate their math skills in class. A Home Study Companion Flash Drive is available which is a video instruction of each lesson of the text and detailed solutions of approximately half of the problems in the text. Applicable SAT and ACT questions will be included.

Text: *Foerster Algebra 1, Classics Edition (Algebra 1: Expressions, Equations, and Applications)*, Prentice Hall Pub.

Monthly Tuition: \$50 Materials Fee: \$20 Optional Book Rental Fee: \$20.00

Time: 8:00 – 9:30 am

Geometry

Instructor: Michelle Price

214-507-9549

MrsPriceTNPC@gmail.com

Prerequisite: Completion of Algebra 1 with a grade of 'B' or better. This class features a proof-based approach to geometry. We will cover lines, angles, direct and indirect proofs, congruence, inequalities, parallel lines, quadrilaterals, transformations, area, similarity, triangles, circles, concurrence theorems, non-Euclidean geometries and more.

Text: *Geometry: Seeing, Doing, Understanding, 3rd Edition* by Harold R. Jacobs.

Monthly Tuition: \$50 Materials Fee: \$15

Time: 11:30 - 1pm

Algebra 2

Instructor: Michelle Price

214-507-9549

MrsPriceTNPC@gmail.com

Prerequisite: Completion of Algebra 1 with a grade of 'B' or better and preferably Geometry.

Course Description: This course will cover the topics typically covered in a High School Algebra 2 course. Designed to prepare students for pre-calculus and college level math, this text will develop and illustrate the algebra skills in the context of functions. The applications include mathematical modeling of real-world situations. The topics covered in this course include functions and relations, systems of linear equations and inequalities, quadratic functions, higher degree polynomials, complex numbers, exponential and logarithmic functions, rational and irrational algebraic functions, and more. A Home Study Companion Flash Drive is available which is a video instruction of each lesson and detailed solutions of approximately half of the problems in the text.

Text: *Paul A. Foerster's Algebra and Trigonometry: Functions and Applications*

Monthly Tuition: \$50

Materials Fee: \$20

Time: 1:30 - 3pm

Calculus

Instructor: Lundy Taylor

214-870-2293

MrTaylorTNPC@gmail.com

Prerequisite: Completion of Precalculus or Advanced Algebra with Trigonometry with a grade of 'B' or better and subject to a placement test.

Course description: Calculus is an honors senior math course and is intended to prepare students to write the advanced placement calculus exams (either the AB or the BC exam) in the 1st week of May. Students will also be prepared to write the CLEP Calculus exam. The course presents Calculus as a study of just four fundamental concepts: limits, derivatives, definite integrals and indefinite integrals. Students learn these concepts using algebraic, numerical, graphical and verbal approaches. Some of the topics covered are derivatives of transcendental functions, related rates, optimization problems, areas and volume applications, centroids, moments, economic applications and physics applications. The course also introduces differential equations and infinite series representation of functions.

Text: Foerster Calculus: Concepts and Applications, 2nd Edition, Key Curriculum Press

Monthly Tuition: \$60 Materials Fee: \$20 Optional Book Rental Fee: \$20.00

Time: 8:00 – 9:30 am

SCIENCE

Using Apologia Science Curriculum, the following science classes are offered:

General Science

Instructor: Cindy Moser

214-557-3102

MrsMoserTNPC@gmail.com

Open to students in 7th and 8th grade; this class provides an in-depth introduction to science and the scientific method, including labs and lab reports. Second semester focus is on life science and the primary systems of the human body.

Monthly Tuition: \$40 Materials Fee: \$15

Time: 10:30 – 11:30 am

Physical Science

Instructor: Cindy Moser

214-557-3102

MrsMoserTNPC@gmail.com

Prerequisite: For students in 8th or 9th grade, concurrently at a minimum of pre-algebra math level and able to work with fractions and decimals. First semester includes earth science topics such as atmosphere, hydrosphere, lithosphere and weather. Second semester topics include motion, the four fundamental forces, sound, light and astrophysics. Labs are included.

Monthly Tuition: \$40 Materials Fee: \$15

Time 11:30 – 12:30 pm

Biology

Instructor: Becky Wilson

972-726-7125

MrsWilsonTNPC@gmail.com

Open to students in the 9th-11th grades. This course covers the five major scientific kingdoms. The first half of the course focuses on the cell including kingdoms Monera, Protista and Fungi along with cellular respiration, reproduction and genetics. The second half of the course shifts to a macroscopic view with the study of micro vs. macro-evolution, an overview of ecology with focus the remainder of the year on kingdoms Animalia and Planatae. Also included is weekly applied lab work (the microscope is used extensively in the first half of the year) along with five dissections (earthworm, crayfish, grasshopper, dogfish shark and frog).

Text: Apologia Exploring Creation with Biology, 2nd Edition

Monthly Tuition: \$60 Materials Fee: \$40 if you own a dissection kit; \$50 if you do not own a dissection kit

Time: 11:30 – 1 pm or 1:30 – 3 pm

Chemistry

Instructor: Lori Taylor

214-870-2242

MrsTaylorTNPC@gmail.com

Prerequisite: For students in the tenth grade or higher; having **completed** Biology and Algebra I with a "B" or above. *Course Description:* With an atoms first approach, this course provides a solid foundation of the basics in chemistry. Topics include: atomic structure, molecular structure, molecular geometry, changes in matter, chemical reactions, stoichiometry, acid and base reactions, solutions, gas laws, thermodynamics, kinetics, equilibrium, and redox reactions. Labs include building 3-D models of molecules, testing electrical conductivity, calculating the width of a molecule, performing an acid/base titration, recognizing limiting reactants, using the ideal gas equation, building a simple galvanic cell, and more. Approximately half of the class is math as applied to chemistry problems, while the other half is related to chemistry concepts.

Text: *Apologia Exploring Creation with Chemistry, 3rd Edition, 2nd or 3rd printing*, Plourde and Hughes

Monthly Tuition: \$60 Materials Fee: \$30

Time: 11:30 – 1 pm or 1:30 – 3 pm

Human Anatomy and Physiology

Instructor: Becky Wilson

972-726-7125

MrsWilsonTNPC@gmail.com

Prerequisite: For students in the eleventh grade or higher who have completed chemistry with an average of "B" or above or tenth graders who have completed the above requirements with approval from the instructor. The course covers in-depth human anatomy and physiology with focus on the integumentary, skeletal, muscle, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive systems. Lab work consists of microscopic experiments with prepared slides of human tissue. Dissection work includes sheep's eye, heart, kidney and brain and a fetal pig.

Monthly Tuition: \$60 Materials Fee: Varies from \$60 - \$85 (See instructor for fee chart.)

Time: 8 – 9:30 am

Physics

Instructor: Larry Walsted

972-793-3391

MrWalstedTNPC@gmail.com

Prerequisite: This college-prep physics course is designed for the student who has completed Algebra 1 and Geometry – Open to students in the 10th -12th grades.

We make Physics fun!

This course covers aspects of motion, free fall, Newton's Laws, work and energy, momentum, periodic motion, geometric optics, electrical potential and more.

Approximately half this class is math, while the other half is related to physics concepts, with dedicated time in class to perform the majority of the experiments in the curriculum.

Equipment to perform all experiments is included.

Text: *Exploring Creation with Physics 2nd Edition.*

Monthly Tuition: \$60 Materials Fee: \$40

Time: 8 – 9:30 am
