Classes at Town North Presbyterian Church 2024- 2025 School Year

www.greenroofcoop.com

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) two blocks south of the intersection of Campbell and Plano Rd.
- Please contact individual class teachers for more information or to register.

WRITING

Instructor: Lisa Pfeifer	214-418-1126
lass will provide a strong foundation e their prepositions, linking verbs, he ence, parts of the sentence, phrase ademic Writing will find this class esp tudent Workbook by Wanda Phillips	nmar is to aid in communication, primarily in English grammar and beginning elping verbs, study the parts of speech, s, clauses, punctuation, and capitalization pecially helpful.
Materials Fee: \$10	Time: 8:30 – 9:30 am
ry paragraph writing class, students and narrative writing. Learning to us	214-418-1126 then the skills that form the foundation of will develop the fundamental skills for se sentence variety and to identify many of ply good grammar techniques to create Time: 9:30 – 10:30 am
ed to reinforce skills. Students will le	
	es. Intended for those students why g writing skills. The purpose of gran lass will provide a strong foundation e their prepositions, linking verbs, he ence, parts of the sentence, phrase ademic Writing will find this class esp <i>tudent Workbook</i> by Wanda Phillips Materials Fee: \$10 Instructor: Lisa Pfeifer es. The class objective is to strengt ry paragraph writing class, students and narrative writing. Learning to us stence formation, the student will ap through Demme Learning Materials Fee: \$10 <u>Instructor</u> : Debby Schneider rades. Throughout the year, student building well-organized essays. Stu- such as descriptive, narrative, and p ed to reinforce skills. Students will leng skills will be taught systematically

Academic Writing 2

Instructor: Rhonda Helmreich

972 -762-8982

MrsHelmreich.CATN@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 grade and higher. The students will learn the essaybuilding process. Using the short story, the students annotate, collect, and organize vital information into a usable format to create compelling and robust thesis statements. The student will learn to develop a logical, coherent, and well-supported argument favoring the stated thesis. Emphasis is on various writing techniques to strengthen writing skills for academic situations, ensuring 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: \$50 Instructor: Debby Schneider

972-955-2920

Recommended for 11th-12th grades. Prerequisite: Academic Writing 2, or submission of a five-paragraph essay demonstrating essential skill in thesis construction and essay development.

In this upper-level class, students will develop the skills necessary for transition into college-level writing. The focus will be given to studying and developing the rhetorical elements, such as consideration of audience, interacting with sources, and the effective use of reason, emotion, and word choice to create a convincing argument. Skills will be reinforced through in-class discussion and analysis of a variety of essays and notable works. Written assignments will include argumentative essays, essays on literature, and research papers. As time allows, the ACT and SAT essays will be discussed, as well as the personal essay used for college admissions.

Texts: The Elements of Style, 4th Edition by William Strunk and E. B. White; Essays and Arguments: A Handbook for Writing Student Essays by Ian Johnson; They Say/I Say: The Moves that Matter in Academic Writing, 4th Edition by Gerald Graff and Cathy Birkenstein; Writing Research Papers: The Essential Tools bv Lesha Mvers Time: 9:30 - 10:30am

Monthly Tuition: \$50

Materials Fee \$10

LITERATURE

(Junior High Level) Intro to Literature 1 MrsDeMetrotion.CATN@gmail.com

Instructor: Jaree DeMetrotion

972-569-7437

Open to students in the 7^{th} and 8^{th} 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: \$50 Materials Fee: \$10 <u>Time</u>: 11:30 – 12:30 pm

The classes listed below are in the recommended order. Taking the corresponding History Class with the Literature is also highly recommended.

Intro to Literature 2 MrsDeMetrotion.CATN@gmail.com

Instructor: Jaree DeMetrotion

972-569-7437

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

Intro to Literature 2 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) Time: 8:30 - 9:30 am

Monthly Tuition: \$50 Materials Fee: \$10

(High School Level)

Instructor: Jaree DeMetrotion

972-569-7437

Beginning High School Lit. MrsDeMetrotion.CATN@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: \$50 Materials Fee: \$10 Time: 9:30 – 10:30 am

American Literature MrsHelmreich.CATN@gmail.com

Instructor: Rhonda Helmreich

972 - 762 - 8982

972 - 762 - 8982

Prerequisite: Beginning HS Lit or permission from the teacher. Recommended to be taken concurrently with American Government. 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." Literature studies establish the basics of worldview thinking from the transcendentalism of *Walden* 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 and logical argument on the story's more profound meaning and import. Uses many books from Sonlight 400 (This course complements American Government.)

Monthly Tuition: \$50 Materials Fee: \$20 <u>Time</u>: 8:00 – 9:30 am

20th Century Literature MrsHelmreich.CATN@gmail.com Instructor: Rhonda Helmreich

Prerequisite: American Literature or permission from the teacher. This course examines the mindset of the 20th century through modern classics like *The Old Man and the Sea, The Great Gatsby*, and *The Metamorphosis*. Reading *Mere Christianity* provides a firm foundation of a Christian worldview, empowering students to formulate a personal statement of Christianity and the theistic worldview. Anchored in the bedrock of theism, students will then 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 enables students to compare, judge, and evaluate the philosophies presented in each novel. Writing assignments focus on the logical evaluation of the worldview presented in the novel compared with a biblical worldview. The book list is from Sonlight 300. (20th Century Literature complements 20th Century History.) **Students**

The book list is from Sonlight 300. (20th Century Literature complements 20th Century History.) Students planning to graduate with CATN are required to complete 20th Century Literature or Understanding the Times (Advanced Worldviews).

Monthly Tuition: \$50

Materials Fee: \$20

<u>Time</u>: 11:30 – 1:00 pm

British Literature

Instructor: Rhonda Helmreich

972 - 762 - 8982

MrsHelmreich.CATN@gmail.com

Prerequisite: 20th *Century Literature or permission from the teacher.* British Literature 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 literary analysis skills, deepen as the students evaluate an author's message compared with a biblical worldview. Students participate in stimulating class discussions and write essays that focus on literary analysis at an advanced level. Also, 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 at the Advanced Placement level. The class includes many books from Sonlight's "Survey of British Literature" 530.

Monthly Tuition: \$50

Materials Fee: \$20

Time: 9:30-10:30 am

SPEECH and COMMUNICATION

Speech and Career Explorations

Instructor: Lisa Pfeifer

214-418-1126

MrsPfeifer.CATN@gmail.com

Recommended for 10^a-12^a grades. Students will learn essential communication skills and interpersonal skills by studying how to present a Bible reading, teach a Bible study, a Children's Bible lesson, humorous monologue, writing a "Visual Aid How-to" speech, presenting a biographical report (expository speech), presenting a sales pitch, and an infomercial (group project). For the second semester, students will begin a study in careers, take personality tests, discover their giftings and passions, and explore careers and how prepare for a job interview. Students will practice job interview skills, how to research companies and employers, and how to find a match for their personalities and goals in life. Students earn 2 high school electives (1/2 credit each).

Texts: Teacher will provide handoutsMonthly Tuition: \$50Materials Fee: \$30

<u>Time</u>: 1:30 – 2:30 pm

ECONOMICS, HISTORY & WORLD VIEWS

American History - [High school credit] Instructor: Barbara Walsted

MrsWalsted.CATN@gmail.com

Open to students in 8th - 9th grade. A survey of American History using Joy Hakim's award-winning series "A History of US" [HUS]. This class will take a balanced approach to points made in this series. 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. Current events will also be a frequent topic of group discussion in the classroom. (This course is a complement to either the Intro or Beginning High School Literature class.) You'll need to purchase the 3rd edition of HUS 10 Volume Set. I'll supply the Student Guide, binder and consumable map.

Monthly Tuition: \$55 Materials Fee: \$30 Time: 9:30 – 10:30 am 20th Century World History Instructor: Lundy Taylor 214-870-2293

MrTaylor.CATN@gmail.com

Open to students in the 10th – 12th grades. A high school level survey of 20th century world history using some core books from Sonlight's 20th Century World History core. The text is newly revised for this year. Unique in all human history, the 20th century is the first to be documented, not just in word, but also in images. This period saw unprecedented change in many areas of our lives including the way we travel, communicate, entertain, and resolve conflict. Focusing on the 20th century and into the beginning of the 21st century, we see the formation and basis of conflicts and philosophies that still greatly affect our world today. Resources used include 1 core book covering events of the 20th century, biographies and historical fiction, movies, eyewitness interviews, and film clips from the various time periods and the internet. (This course is a complement to 20th Century Literature.) Materials Fee: \$20 Time: 10:30 -11:30 am

Monthly Tuition: \$50

American Government

Instructor: Jenn Vermeulen

MrsVermeulen.CATN@gmail.com

Open to students in the 10th – 12th grades. This course offers an in-depth study of American civil government, including a study of the U.S. Constitution, the structure of the federal government, and the merits of limited government. Through critical analysis of historical documents, including The Federalist Papers, students develop a rich appreciation for how the government is supposed to work and what it means to be a citizen of the United States. Class time will be spent discussing current events, discussing predominant political ideologies since the Enlightenment, and discussing how the government impacts daily lives and personal freedom. Maximum class size: 12. Monthly Tuition: \$50 Materials Fee: \$20 Time: 10:30 – 11:30 am

Personal Finance/Economics

MrWalsted.CATN@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.

Instructor: Larry Walsted

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:

- Introduction to Personal Finances 1.
- 2. Savings
- 3. Budgeting
- Debt 4.
- Life after High School 5.
- Consumer Awareness 6.
- 7. **Bargain Shopping**

214-226-6021

972-793-3391

972-816-5242

- Investing and Retirement 8.
- 9. Insurance
- 10. Money and Relationships
- Careers and Taxes 11.
- 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: \$75

Materials Fee \$50

Time: 11:30-1:00pm

972-816-5242

World Views I - Lightbearers [LB]. Instructor: Barbara Walsted

MrsWalsted.CATN@gmail.com

Open to students in 9th – 10th grade. It is recommended to take this class before upper-level UTT high school class. Christians need to understand the truth of God's Word and how it applies to all areas of life. They 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 and is designed to help students clearly understand the tenets of the Christian worldview, and how they compare to the tenets of the leading humanistic and transcendental worldviews so prevalent 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 hot topics we will cover include abortion, apologetics, cults, evolution, feminism, homosexuality, naturalism, moral relativism, pluralism, relationships, and socialism. To prepare students for TNPC HS literature classes: Islam, Secular Humanism, Marxism, Socialism, New Spirituality, and Postmodernism will be introduced. Current events will also be a frequent topic of group discussion in the classroom. Materials fee also includes curriculum: workbook, How to Be Your Own Selfish Pig book, and USB drive. Time: 8:30 – 9:30 am

Monthly Tuition: \$60 Materials Fee: \$110

World Views II – Understanding the Times [UTT] Instructor: Barbara Walsted 972-816-5242 MrsWalsted.CATN@gmail.com

Open to students in 11th - 12th grade. Understanding the Times is designed by Summit Ministries to equip students to become champions of the Christian Faith - before heading off to university. 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 worldviews 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. The class uses a flipped classroom approach where group discussion is the major focus. 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. You'll need to purchase the UTT Student Manual + Textbook directly from Summit's website before classes begin. Approx. cost currently is \$55 + shipping.

Monthly Tuition: \$60

Materials Fee: \$40

Time: 10:30 - 11:30 am

GEOGRAPHY

Geography

Instructor: Jenn Vermeulen

214-226-6021

MrsVermeulen.CATN@gmail.com

Open to students in the 10th – 12th grades. Continent by continent, we will tour the nations and learn traditional geographical knowledge including countries, river systems, mountain ranges, bodies of water, and other important landmarks. The students will explore the cultural heritage of people groups, as well as the economic conditions, systems of governance, and geopolitical realities across nations and regions. Over the course of the year, students will memorize country names, give oral presentations, and discuss current events from around the world. It is recommended to take this course either prior to or during the study of 20th Century World History. Class size: 5-11.

Monthly Tuition: \$50 Materials Fee: \$20 Time: 9:30 – 10:30 am or 11:30 – 12:30 pm

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Instructor: Cindy Moser	214-557-3102
placement test from Math-U-See websic operations, solving for the unknown, an	ite recommended. This class covers nd other topics listed on the Math-U-See
bra Student Workbook & Test Booklet	
Materials Fee: \$20	<u>Time</u> : 1:30 - 3:00pm
Instructor: Lori Taylor	214-870-2242
g to solve math problems algebraical ed to basic geometry. Other topics ind ts, unit conversions, probability, Pytha ed in the first semester. The second s ety of word problems and to include ns. Saxon is incremental and cumulativ	ly and learn the elementary concepts of clude fractions, order of operations, ratios, agorean Theorem, and more. More than emester is supplemented with worksheets two additional topics in the curriculum: e, introducing new concepts in small steps ly/help sessions are available as needed.
Instructor: Lori Taylor	214-870-2242
algebra course providing a firm foundans, linear and quadratic equations and s, linear and radical expressions, prove, introducing new concepts in small	1 (3 rd edition) which covers the traditiona ation for higher level math courses. Topics graphs, polynomials, inequalities, systems obability, data analysis, and more. Saxon steps while reviewing previously learned rksheet (1 page) with SAT/ACT-like multiple
Instructor: Michelle Price	214-507-9549
congruence, inequalities, parallel line concurrence theorems, and more.	to geometry. We will cover lines, angles, es, quadrilaterals, transformations, area,
my, onderstanding, srd Edition by Har	UIU R. JACODS.
	blacement test from Math-U-See websisperations, solving for the unknown, and bra Student Workbook & Test Booklet Materials Fee: \$20 Instructor: Lori Taylor burse serves as a transition between g to solve math problems algebraical ed to basic geometry. Other topics include to basic geometry. Other topics include to basic geometer. The second s ety of word problems and to include the first semester. The second s ety of word problems and to include the s. Saxon is incremental and cumulative arried material. Additional online stude d edition, Textbook and Solutions Manual. Materials Fee: \$25 Instructor: Lori Taylor a Pre-Algebra course with a grade of furse uses the classic Saxon Algebra for a grade of section, and radical expressions, prove, introducing new concepts in small between the a weekly homework wo online study/help sessions are availabledition, Textbook and Solutions Manual. Materials Fee: \$25 Instructor: Michelle Price Algebra 1 with a grade of 'B' or better. ass features a proof-based approach congruence, inequalities, parallel line

Monthly Tuition: \$60 Materials Fee \$15

<u>Time</u>: 11:30 - 1pm

214-507-9549

Algebra 2

Instructor: Michelle Price

<u>MrsPrice.CATN@gmail.com</u> *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 as well as a considerable amount of geometry. Designed to prepare students for pre-calculus and college level math, this text will use real-world, abstract, and interdisciplinary applications. Topics include geometric functions like angles, perimeters, and proportional segments; negative exponents; quadratic equations; metric conversions; logarithms; and advanced factoring. In addition, the course covers uniform motion, chemistry-related problems, simultaneous equations with 2 and 3 variables, non-linear equations, right-triangle trigonometry, conversion from rectangular to polar coordinates, addition of vectors, complex numbers, and quadratic formulas.

MATH

Monthly Tuition: \$60	Materials Fee:\$20	<u>Time</u> : 9:30 - 11am and 1:30 - 3pm
Pre-Calculus	Instructor: Rick Moser	214-557-2364
MrMoser.CATN@gmail.com		
Prerequisite: Successful comp	letion of Algebra 2 and Geometry.	
Course Description: Entry to the	ne Pre-Calculus course follows suc	cessful completion of Algebra 2 and
Geometry; its purpose is to pre	epare the student for college Calcul	lus and related STEM classes. The course
		geometry, and upper-level algebraic
	aic concepts will be reviewed, and i	
		n highly recommended) is required as part
		textbook for this course. Students should

Monthly Tuition: \$70 Materials Fee: \$20 <u>Time</u>: 1:30 – 3:00pm Instructor: Jon Motter

Individualized Math Instruction MrMotter.CATN@gmail.com

Open to students in the 10th – 12th grades. Some students experience challenges mastering critical mathematical concepts that are essential to success with higher level Mathematics. This offering is intended to review and reinforce key mathematical skills on an individual basis so that students can successfully pursue higher-level STEM-related classes or more rudimentary college math classes. Instruction is customized based on individual student needs. For example, students may review subjects such as arithmetic fundamentals, geometry, fractions, ratios, probability, and statistics. Moreover, students may review concepts such as the metric system, repeating decimals, scientific notation, Pi, graphing inequalities, and the slope intercept form of linear equations. In addition, major mathematical theories, such as the Pythagorean Theorem can be reviewed. Finally, students can apply these concepts to SAT-type problems so that they can successfully integrate concepts with mathematics test questions in a variety of formats. A graphing calculator (TI-84 or higher) is required as part of the course. Textbooks will vary based on individual student needs. Monthly Tuition: TBD

SCIENCE

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

General Science	Instructor: Cindy Moser	214-557-3102
MrsMoser.CATN@gmail.com		
method, including labs and science: Earth Science, Bi	d 8th grade; this class provides an in-depth d lab reports. Other topics covered include ology, Chemistry, Physics, Marine Scienc Creation with General Science, 3 rd Edition	e an introduction to various branches of e and Environmental Science.
Monthly Tuition: \$40	Materials Fee: \$15	<u>Time</u> : 10:30 – 11:30 am
Physical Science MrsMoser.CATN@gmail.com	Instructor: Cindy Moser	214-557-3102
Prerequisite: For students able to work with fractions Science, including the scie This will be followed by mo Text: <i>Apologia Exploring</i> C	in 8th or 9th grade, concurrently at a mini- and decimals. Physical Science will first re- entific method, making observations, hypo- odules on chemistry, physics and earth sci <i>Creation with Physical Science</i> 4th edition book, scheduled to release Spring 2024	eview concepts covered in General theses, analyzing data, and measuring. ience. by Vicki Dincher. Please note that this
Monthly Tuition: \$40	Materials Fee: \$15	Time 11:30 – 12:30 pm

purchase both the textbook and the Solutions Manual for this course.

972-897-9490

MrsThorne.CATN@gmail.com

Open to students in the 9th-11th grades. The focus of this class is to foster the exploration of God's creation. As we study the five major kingdoms, cell structure and function, cellular respiration, photosynthesis, DNA, reproduction, genetics, evolution, and ecology, we simultaneously practice hands-on lab learning through microscopic studies, creative experiments, and specimen dissection. This allows for discussion and real-life application of the topics and their importance to our living world. Major concepts are introduced early and continually applied throughout the course. This allows a deep-rooted understanding of living organisms and biological processes as we recognize the work of God as Creator.

Module work is submitted online so students receive immediate responses and can check their comprehension. Additional study sessions are available online prior to each test to ensure student confidence.

Text: Apologia Exploring Creation with Biology, 3rd Edition

Monthly Tuition: \$70 Materials Fee: \$40 Dissection Kit \$10 (you may provide your own)

<u>Time</u>: 11:30 – 1 pm or 1:30 – 3 pm

214-870-2242

Chemistry

MrsTaylor.CATN@gmail.com

Prerequisite: Successful completion of Algebra I with a grade of 'B' or better.

Instructor: Lori Taylor

Course Description: With an atoms first approach, students receive a thorough introduction to the study of matter and changes in matter. Experiments are integrated with the topics to give the student hands-on experience to conceptualize the concepts. The math work involved is also applied in the experiments to provide quantitative understanding and reasoning. All the experiments in the curriculum are completed with additional activities, labs, and demos and worksheets to facilitate a greater depth of understanding. Topics include the atomic and molecular structure, molecular geometry, polyatomic ions, basic types of chemical reactions, acid-base chemistry, redox reactions, gas laws, thermodynamics, kinetics, equilibrium, and more. All lab equipment, materials, and experiment sheets for this course are included in the monthly tuition. Additional online study/help sessions are available as needed.

Text: Apologia Exploring Creation with Chemistry, 3rd Edition, 2nd or later printing, Plourde and HughesMonthly Tuition: \$70Materials Fee: \$50Time: 11:30 – 1 pm OR 1:30 – 3 pm

Human Anatomy and Physiology

<u>MrsThorne.CATN@gmail.com</u> *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 a 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

Instructor: Stacy Thorne

Instructor: Lundy Taylor

sheep's eye, heart, kidney and brain, and a fetal pig.

Monthly Tuition: \$70 Materials Fee: Varies from \$60 - \$85 (See instructor for fee chart.)

Physics

MrTaylor.CATN@gmail.com

Prerequisite: This college-prep physics course is designed for the student who has completed Algebra 1 and Geometry. Co-requisite: Algebra 2. This course covers aspects of motion, 2D motion, free fall, Newton's Laws, momentum, energy and their circular motion equivalents, simple harmonic motion as applied to periodic motion and waves. in linear and circular form, work and energy, momentum and angular momentum, periodic motion, waves, optics, circuits, electrostatics, magnetics, motors and more. Experiments have been completely redesigned. The course emphasizes hands-on, quantitative physics. Students get to see the concepts work. Through Phyphox, an open source free app, the phone becomes a measurement device. *Textbook and equipment to perform all experiments are included in the monthly tuition*.

Monthly Tuition: \$70 Materials Fee: \$50

<u>Time</u>: 8 – 9:30 am

ROBOTICS____

Robotics

Instructor: Lundy Taylor

214-870-2293

MrTaylor.CATN@gmail.com

Note, that this course requires the student to have a laptop for class as well as access to a computer at home. Open to students in grades 9 - 12. The course is project based and projects are assigned based on a student's previous experience. Students come from different backgrounds, some will be absolute

better.

214-755-4993

214-870-2293

<u>Time</u>: 8 – 9:30am

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214-755-4

beginners, others can be quite familiar with working and programming robots. Languages used are Scratch, Python and C. The languages are all in the public domain and can be downloaded and installed for free. Students progress at their own pace; when one project is done, they will be assigned the next. When a project is completed, students are required to present their design and solution in the form of a technical presentation to the class. Robots are from Make Media (mBot Neo, mBot Ranger, etc.) and TI-MSP430. The "brain" of each robot is a microcontroller, the ones used in this course are Arduino, Raspberry Pi MSP430 based. If the class size is large enough, then students can work in teams. Project progress is much faster when that happens, and cooperation skills are learned. Note that debugging can be time consuming and frustrating. Equipment is provided and the cost is included in the tuition. Monthly Tuition: \$70 Materials Fee \$75 Time: 1:30 – 3:00 pm