

Science: From the Very Beginning

Genesis 1:1



Course Catalog
2014-2015 Academic Year

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About The Teacher



Kimberly Edgar is an education veteran. While attending graduate school at the University of Missouri, she taught Introductory Biology and Microbiology. She received her Master's Degree in Education. In the process of receiving her degree, she had her first child, Dustin, who she homeschooled from kindergarten until he graduated from high school. She also homeschooled her younger daughter, Abbey, for her entire educational career. In addition to teaching middle school and high school level courses, she still provides assistance to her two children (well, three if you count her son-in-law, and she would) in their education, so she never really stopped homeschooling!

Kim is passionate about education, both her own and furthering education for others. Her house is covered in books on every subject: from crafting to science to Bible Study. She spends countless hours over the summer, researching and gleaning new knowledge. She spends multitudinous hours preparing lectures and homework materials to make sure what she conveys the most important information to her students. Kim's time and effort prove to offer a caliber of education that is invaluable in both the knowledge itself and the life skills acquired throughout the course.

Testimonials

"Do you want your kids to be ready for college courses yet have an amazing amount of fun in the process? If the answer is yes (and it should be), then you definitely want your kids to take Kim Edgar's science courses.

"Why should you sign up your kids for Miss Kim's classes as opposed to other science classes available? First of all, your high school kids will learn precisely what it is like to be in a college course. They will take copious notes on lectures, draw diagrams, and learn to be responsible for their own learning. Miss Kim does not sugar coat assignments or grades. She tells kids exactly what to expect on quizzes and tests, and then she writes at least some of her test questions in a way that you cannot just write down what you know, but have to apply what you know. This is exactly like a college course. Your teen will be responsible for vocabulary, reading assignments, homework assignments, weekly quizzes, cumulative final exams, as well as a project every semester that will include a verbal presentation with visual aids.

"I know a young man who is expecting to go to Medical School after college, and he said Miss Kim's science courses made his first year university courses EASY. I know my son's first year college science courses were much easier because of her classes. In his first semester of college chemistry, he got an 'A' with minimal studying. This course is known as being especially challenging for the average college student.

"Secondly, Miss Kim loves to have fun at the same time she is teaching. She hates the word 'boring.' Here is some of the things my son did in her science classes: Dissect sheep brains, cow eyes, fetal pigs, analyze and take apart owl pellets, safely explode gooey things and make huge messes out in the parking lot, and my favorite from her human anatomy course: the kids got to participate in making a rudimentary digestion system! They poured oatmeal (food) down into a large toe-less panty hose leg (the mouth), and then did the various things that the digestive system does (like putting in a digestive agent that acts as saliva, stomach acid, etc), then squeezed with their hands all the way down (peristalsis), and finally, "elimination" into a big glop out the end! The kids loved it and learned tons of things simultaneously! Miss Kim is not afraid to make huge messes to make learning fun, and then she just has the kids help clean up quickly and go on to their other classes.

"For middle schoolers, the academic demand is less than in high school, but the fun is abundant. Your student will find out that science is FUN and will develop their own love for it if they have taken Mrs. Edgar's courses. Having this exposure to science concepts and vocabulary will also make their high school courses easier.

"Miss Kim is such a fantastic science teacher. She is well organized and amazingly creative. She loves science! She loves to learn but she also loves to have fun, and makes learning science fun for kids of all ages."

-Pam C., Homeschool Mom

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"As a full-time college student at the New Mexico Institute of Mining and Technology (New Mexico Tech), I most certainly appreciate the real-world experience I gained from Miss Kim's classes. The presentations made me grow comfortable presenting to a large group. I learned how to study effectively in order to succeed. I became accustomed to being held accountable for large amounts of information, and the weekly quizzes helped me stay on

top of the work. Building this valuable skill set has served me well in my post-secondary education. I would recommend all of her classes, especially if you love science!”

-Abbey, Technical Communications Major
New Mexico Tech

Course Offerings

NOTE: All classes begin the week of August 18th.

Chemistry

This high school level course requires students to have completed Algebra I. This course will include weekly popping, fizzing, color changing lab activities, a lecture portion, regular quizzes and homework assignments, and two semester projects. Topics include stoichiometry, thermodynamics, solubility, acid-base chemistry, kinetics, equilibrium, and nuclear chemistry.

Text: Exploring Creation with Chemistry, 2nd ed. by Dr. Jay Wile
ISBN: 978-1932012262

Additional supplies: Binder, notebook paper, writing utensils, colored pencils and sharpener, and lab goggles

Prerequisites: Algebra I

Time: M/W 2:00-4:00 p.m.

Tuition: \$70/month + \$30 per semester lab fee

Forensic Science

This high school level course integrates biology, chemistry, and physics to teach the basic techniques and the hard-core science of crime scene investigation. The course will include weekly lab and lecture segments, frequent quizzes, and two semester projects. Topics will include ballistics, toxicology, fiber analysis, fingerprinting, DNA evidence, facial reconstruction, and more.

Age/Grade level: High school (Extremely motivated 7th and 8th graders welcome with instructor approval. The workload for this course is quite intense).

Prerequisite: None

Text: No textbook is required, but internet access is essential.

Additional supplies: Binder, notebook paper, writing utensils, colored pencils and sharpener, and lab goggles.

Time: M/W 9:30-11:30 a.m.

Tuition: \$75/month + \$30 per semester lab fee

Human Anatomy and Physiology

This high school level course will fulfill a biology credit for students who have not had a previous biology class, but will also count as an advanced science class for students who have already had biology. This year-long course will include a lecture component, a lab section, and two required projects. We will be covering cells, tissues, and genetics, along with the major body systems, including a unit on human reproduction, development, and birth. In addition to "really cool" labs, we will be doing a variety of dissections as a part of our course work.

Age/Grade level: High school (Motivated middle school students will be admitted with instructor approval)

Prerequisites: None

Text: Fearfully and Wonderfully Made by Dr. Jay Wile and Marilyn Shannon
ISBN: 978-1932012095

Additional supplies: Binder, notebook paper, writing utensils, colored pencils and sharpener, small sharp scissors, craft knife and blades, and lab goggles (Students who already own a dissecting kit may use this in lieu of the craft knife and scissors).

Time: Th 9:00-11:00 a.m. with an optional review on Monday or Tuesday afternoons, depending on class preference.

Tuition: 3 payments of \$80/semester.

Science Through The Days of Creation

This general science class will cover a wide variety of topics, including light and energy, the states and nature of matter, wind and weather, rocks and minerals, botany, astronomy, animal biology, and the human body. Following the progression of God's hand through creation, this course will provide foundational scientific principles in an exciting, hands-on way. Students will be provided with course note outlines and handouts on a weekly basis. There will be some, age-appropriate weekly homework and a science fair type project during the spring semester.

Age/grade level: Middle school

Prerequisites: None

Text: None

Additional Supplies: Binder, notebook paper, writing utensils, colored pencils and sharpener and lab goggles.

Time: T/ 2:00-4:00 p.m.

Tuition: \$60/month, 4 months/semester (lab fees are included)