

## *Youth Science Classes Spring 2012*

Classes begin the week of January 30 and end the week of March 12 (7 weeks). The Youth Science Classes are non-profit and we strive to keep costs as low as possible. For registration and additional program information, please see the Science Outreach website at [http://www.georgefox.edu/science\\_outreach](http://www.georgefox.edu/science_outreach) or call Jana Kaye at 503.554.2728.

### *The Earth Beneath Our Feet*

Ages 7 to 9 (\$45.00)

Monday, 3:00 to 4:00, First class is January 30, EHS 103

Teachers Kyle Maki and Kelli Nakamura

Come explore the earth! We'll experiment with rocks and minerals, create crystals, learn how fossils formed and make a few of our own. We'll study water and the atmosphere, discover the difference between dirt and soil. We'll even look at how natural disasters like volcanoes and earthquakes affect the earth.

### *Comparative Anatomy*

Ages 10 to 12 (\$65.00)

Monday, 3:00 to 5:00, First class is January 30, EHS 225

Teachers Kaitlyn Sanders and Jennifer Dalziel

What do we look like under our skin, and how do our bodies compare to others of God's creatures? In this class we will study human body systems and compare them to other vertebrates. We'll examine both human and animal hearts, brains, and other organs, dissect various vertebrates, and gain a better understanding of the systems that enable us to think, breath, live.

### *Physics of Music*

Ages 13 to 15 (\$70.00)

Thursday, 12:00 to 2:00, First Class is February 2, EHS 103

Teachers David Hite and Kimia Ighani

What is sound? What causes sound to become music? Gain a better perspective of music as you learn the science behind it. Through lots of hands-on experiments, you will understand the basic elements of physics, biology, and electronics behind music and expand your own ability to create music. Then using this knowledge, complete a project in which you design and build an instrument and present it to the class.

### *The World of Engineering*

Ages 16 to 18 (\$70.00)

Thursday, 10:00 to 12:00, First Class is February 2, EHS 225

Teachers Austin Morrell and Kai Oijala

Have you ever seen a building and wondered how it was made? Or a bridge or dam and wondered how people designed it? Come learn how engineers design and build many things from shoes and flashlights to towering skyscrapers and bridges spanning entire canyons! Learn about the engineering design cycle, principles of physics, forces within bridges and structures, and material properties. You will learn through in-class research and lab experiments and through assigned homework.

