

**Baylor Undergraduate Lecture Series**  
in  
**Mathematics**  
**Sixth Annual Lectures**



**Thinking through your education:  
The 5 Elements of Effective Thinking**  
Wednesday, February 19, 2014 - 4:00 p.m.  
Baylor Sciences Building, D109

One of the quintessential elements of education is that it offers students lessons that can stay with them long after they are unable to reproduce a passing grade on their course final exams. The goal of education is to transform lives—to help individuals learn how to think more imaginatively and wisely today so that they can go off and innovate as well as create artful solutions to important problems tomorrow—problems that often don't even exist yet. These habits of thought can be applied throughout life. Join us for a lively and thought-provoking event in which Dr. Burger will not only share these important life-long lessons that arouse effective thinking and creativity but also celebrate all that education does not end when we are presented with our last diploma—we continually need to make up our own minds.

**Thinking through the natural numbers:  
A rational and irrational look at 1, 2, 3, 4, ...**  
Thursday, February 20, 2014 - 4:00 p.m.  
Baylor Sciences Building, D109

Some people see magical features in the famous Fibonacci numbers and the alluring golden ratio  $\phi$ . But what if you replace the famous  $\phi$  with your phavorite obscure quadratic irrational real number? Is the magic still there? Here we'll think through these questions, highlight their history, and share some recent insights that will transfigure the magic into mathematics. Revealing any more here would be simply *ab-surd*.



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