

# Online GREEN CHEMISTRY

Professional Development for  
High School Teachers

October 14<sup>th</sup> – December 9<sup>th</sup>, 2011

A collaboration of



**Beyond Benign** is a non-profit organization dedicated to Green Chemistry Education. Beyond Benign has developed the first comprehensive set of Green Chemistry lesson plans for the high school classroom and has many years' experience training teachers around the world in Green Chemistry techniques and pedagogies. This exclusively online class will be taught by education staff who are current and former classroom teachers, and informed by current green chemists.

**Colorado School of Mines (CSM)** is dedicated to the mission of Earth, Energy and Environment and is one of the premier science, math and engineering colleges in the world. The professional outreach program of CSM provides graduate level credit to teachers engaged in professional development

To enroll and see more information go to:

[www.BeyondBenign.org](http://www.BeyondBenign.org)

and click on the 'register now' button

## Quick Facts

- 8 week course
- 100% online
- Earn Professional Development Points
- Optional 3 graduate level credits for participants
- Go at your own pace format
- Geared toward classroom implementation
- Free lesson plans
- New labs
- Interactive learning environment with audio, video and insightful discussion.



## **COSTS**

**\$300.00**

Payable to Beyond Benign at the time of registration

**\$150.00 (optional)**

Cost for 3 graduate level credits from Colorado School of Mines.

Due: 11/4/11

## **TECHNOLOGY REQUIREMENTS**

### **Operating Systems**

- Windows XP or later
- MAC OS 10.X or later

### **Required**

- Internet Access (wireless is acceptable except in the use of the WebEx synchronous meetings)
- Web Browser – Internet Explorer 7.0 or later or Mozilla Firefox 3.0 or later
- Email Account
- Microsoft Office 2003 or later

**Green Chemistry** is the science of creating safe, energy efficient and non-toxic products and processes and offers a concrete path towards solving the environmental problems our society faces today.

This course begins with an introduction to the 12 principles of green chemistry and then concentrates on the exploration and creation of green chemistry lesson plan materials. Educational resources that are proven vehicles for bringing green chemistry concepts to high school students will be introduced. These lesson plans are designed to integrate into current curriculum and meet national education standards in science and connecting disciplines.

The materials are designed for high-tech, low-tech and no-tech implementation so that teachers with varying resources have an avenue for implementation.

The final project involves developing a green chemistry implementation plan for your teaching environment.

No text is required although some additional resources for purchase may be recommended.



**Registration  
deadline  
Oct. 7th**

## **WHO SHOULD ATTEND?**

- High School Chemistry and General Science teachers
- Teachers interested in preparing their students for the 21<sup>st</sup> century
- Teachers who see sustainability as a core understanding for all students
- Teachers who want to learn cutting edge science at their own pace this summer

\* Limited scholarships are available please contact below for more information

**For additional information and questions please contact Rachel Pokrandt, Director of Curriculum and Training at [Rachel\\_Pokrandt@beyondbenign.org](mailto:Rachel_Pokrandt@beyondbenign.org)**