

Eliminate the Need for Expensive Glassware and Equipment

Course Title:	Small Scale Science Techniques
Course Number:	CBL 1105
Section 21:	1/15-3/15/03
Section 22:	3/15-5/15/03
Fee:	\$49
Location:	Online Course

Description

The purpose of this 20-hour course is to help you learn small scale teaching techniques by introducing this topic to you in a learn-by-doing format online. When you progress through the materials, activities, and modules, you'll gain the knowledge, practice, and confidence to apply small scale in your classroom activities or Home School.

This course was designed by Michael T. Garlick to develop course offerings primarily for K-12 educators. The hands-on elements are required to enhance your feel and understanding of the materials presented. These hands-on supplies can be obtained directly from the instructor by mail once you have enrolled for this course and have completed Unit 1. Please do not hesitate to communicate (by email, fax, phone or help desk), if you have any questions or concerns over the materials presented.

Goals:

Small Scale Science Teaching Techniques teaches the use of conservation, cost and waste reduction, and other "green chemistry" approaches in the design of quality, hands-on classroom activities. These experiments help to promote innovative and creative teaching in the 3rd-12th grade classroom environments.

Course Requirements:

This course requires participation in discussion and hands-on activities. Last minute cramming of materials isn't friendly to this style of learning, and is strongly discouraged. Email and online participation in discussions are given credit, so participation is part of your grade. Your ideas, solutions, and discussions are important elements to other members of this class.

Please be ready to share your successes and failures with the class. Many of the best teaching opportunities have arisen from the ashes of spectacular failures, so don't sell your experiences short by keeping them to yourself. These failures offer constructive perspectives and future solutions. This class is more than a book or a series of hand-outs. There is a valuable textbook which can be used as a reference. It is optional for this course, though it is an excellent reference for small scale activities. Keeping an online activity log is required for SB-CEU credit.

Technical Specifications / Skills Needed:

- Power Mac or Pentium PC or higher.
- CD-ROM drive 2x or faster.
- 64MB Memory or more.
- Connection Speed 56K or better.
- Internet ready with browser* already loaded Netscape 4.7 or Internet Explorer 5.0 + AOL (Do not use AOL browser).
- Word processor (Recommended Microsoft Word)
- PDF decoding software Adobe Acrobat 4.0 or higher (Free download from [Http://www.adobe.com](http://www.adobe.com))
- Skill Ability to use a browser*, and a search engine online.
- Ability to use a word processor, and spell checker.
- Ability to cut and paste text files.
- Ability to upload and download files, use simple programs, open documents, and open images.

Textbook:

Not Required: Chemtrek ISBN 0-205-11913-1 Author: Stephen Thompson List Price New \$59.00 Used \$20.00 when available.

Available from <http://www.amazon.com> in 10-12 days. This is an excellent reference on small-scale activities for 2nd year high school chemistry, biology, and junior college chemistry. Many of these experiments can be adapted for other levels due to the flexibility, and amount of reference materials provided within the text. Soft cover spiral bound.

Recommended: For Science Teachers in 7th - 12th grades as a valuable resource for developing a final project for CEU's.

Continuing Education Unit:

This course has been approved by the Michigan State Board of Education for 2.0 SB-CEUs. Participants must participate in all sessions and keep an official log sheet. Please call Suzanne Kart at 989-686-9401 for more information or to receive an official log sheet.

For more information,
Call 989-686-9515.
Check out our website at:
www.delta.edu/conted

Special Note:

Once you register for this course, you will receive a letter with instructions for logging on to your class.

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