

Spring Term 2004 (04-2)

Teaching Chemistry in the Computer Age. (1 credit)

Profs. Bandik and Grabowski

The advent of the world wide web, inexpensive computer hardware, sophisticated programming languages, and simple-to-use databases has presented new paradigms for the teaching of science courses at the college and university level. In addition to discussing the hardware and software used to achieve this new method of learning, the course will explore the pedagogical issues of these new tools as well as traditional Instructional Design concerns. The course will meet for ten evenings for 90-minutes, and will feature presentations by invited experts, discussions of good and bad existing projects, and an examination of relevant literature. This one-credit mini-course will emphasize the practical and will require each enrolled student to create a web-based tutorial for a topic in Chemistry. Students interested in an academic career may find this a particularly appealing mini-course. Course enrollment will be limited to 12 students.

Prerequisite: Permission of both instructors.

Recitation: None

Class size: 12 maximum

Offered: Spring Term (every second year)