**Project Description**

This terminal studio focuses on a school building program on a single block of medium urban density that will specialize in the fabrication of glass as part of its educational, cultural, and artistic mission. The project will demonstrate the integration of technology and building form in concert with the density, outdoor spaces, and the morphology of the surrounding environment. An important objective of this project is the opportunity to explore transparency, technology, innovation, material use/selection, lighting in the context of codes, energy conservation, and elimination/reduction of fossil fuels.

The building program is approximately 30,000 square feet of space and will include:

- classrooms, studios, library, cafeteria, and lecture hall, offices — the "typical" elements of a school, but reinterpreted to promote learning both within the classroom and "in the field."
- specialized areas of glass include batch rooms, furnace areas, lehr to anneal glass, maintenance shop, research areas, coldworking equipment, tables, break room, delivery/shipping
- galleries, a café, and retail space to support the arts focus of the school and to connect the school with the surrounding city
- a small number of apartments for visiting artist-teachers

**The Site**

The site for this studio is located in San Francisco on an urban site in the vicinity of Market St. near civic buildings, museums, libraries, restaurants, transportation, design showrooms, industrial facilities, and areas of urban renewal/housing. The site will allow upward development, yet be flexible enough to develop outdoor, single story spaces.

**Studio Methodology**

The studio is intended for those to bring a strong integration of green strategies and artistic expression in a full set of crafted schematic design documents. The eight-credit studio will be a highly structured, professionally-oriented, demanding format, as the final culmination of design education.

In lieu of a fall seminar, it is expected that all students will have completed at least one advanced ECS elective (daylighting, electric lighting, sustainable case studies, Energy Scheming, Passive Cooling, Passive Solar, or independent studies) and will bring a level of expertise to studio. Additionally, an outline will be provided in the Fall for understanding school programs, selected readings (schools, glass, history), and software programs (e-Quest, Ecotect, AGI32, carbon calculators, etc), and the conceptual development of the school program. Expected outcomes from this outline are:
1. graphical representations of climate responsive design that are feasible in the San Francisco climate;
2. evidence of mastery of at least one energy analysis software program;
3. information on precedents.

Studio will meet three days a week in its usual time slot with pinups on Fridays, to allow reflection over the weekend on critiques. Guest lectures, field trips are likely to take place occasionally on Mondays. Critiques of work will take place in groups as well as individually, depending on the progress and weekly activities.

Opportunities to participate in national conferences (AIA Convention (San Francisco), American Solar Energy Society (Buffalo), ASHRAE (Chicago) will be encouraged during the studio terms, Green Building Workshops for the LEED exam.

**Advisors**

A number of practitioners and experts in school design and various aspects of glazing technologies and fabrication will offer expertise in the studio for lectures, desk crits, and mid-term and design reviews. Arrangements are currently underway to apply for studio funds to help support some of the studio materials, travel, and activities.

**Final Products**

At the completion of this studio, it is anticipated that you will be able to show substantial knowledge and understanding of the design of a school that challenges the notion of a typical school. The studio will develop a book that will include documentation from the term collectively and individually (site, topical research, principles and guidelines, models, photographs, and a 4-page summary from each student's work).

**Fieldtrips & Activities**

- **Tacoma Museum of Glass**
  Tacoma, WA  September, 2008
- **Corning Museum of Glass**
  Corning, NY
- **Site visit: after final exams**
  San Francisco, CA  December 2008
  Pacific Energy Center, firm visit, museum
- **Bullseye Glass Co.**
  Portland, OR  February, March
- **Craft Center or other:**
  W/S term: Glassblowing class or seminar to explore diverse ways of thinking about glass: its history, form and function. Understanding presentations of historical and contemporary glass, studying examples work, the nature of the material, creativity, and development of ideas into finished works.