Prerequisites:
• ECS I and II or its equivalent;
• Proficiency in the mathematics involved in heat gain and heat loss calculations;
• A smaller building from a previous design studio, appropriate for these calculations and design changes.

Please do not register for this seminar if you lack any of these prerequisites.

Our primary focus is on the thermal performance and design impacts of various passive solar heating and cooling strategies.

Your term project will investigate a building that you have designed previously. You will calculate its heat loss and heat gain. You will then identify design changes suggested by these calculations.

Final Project Due at Final Exam, 8 AM Monday March 14

TEXTBOOK: 10th or 11th edition, Mechanical and Electrical Equipment for Buildings REQUIRED.

Please note: This seminar combines passive solar heating and passive cooling. As a result, there will be two complete sets of calculations, and many design strategies investigated during our nine weeks of class. We will several times shift focus between heating and cooling. This will be a more demanding seminar than my past seminars that dealt with only one of these topics.