PASSIVE HEATING AND COOLING SEMINAR
ARCH 410/510
CRN 36988 / 36989

Prof. John Reynolds, 541-344-9440
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office location unknown as yet....

8:30-9:50 AM, TU/ TH, RM 206
Seminar is limited to 20 students

4 Credit Hours, P/N or Graded

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 Tuesday June 8

TEXTBOOK: 10th edition of Mechanical and Electrical Equipment for Buildings REQUIRED.

Purchase Course Packet at U of O Bookstore, and bring to first meeting.

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 shift focus between heating and cooling several times. This will be a more demanding seminar than my past seminars that dealt with only one of these topics.