PASSIVE COOLING SEMINAR

ARCH 410/510 **FALL 2017**
CRN 10489 / 10564

Prof. John Reynolds, 541-344-9440
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[office 1479 Moss, appointment only]

Individual meetings with students will be in the A&AA Hearth.

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

4 Credit Hours, P/N or Graded

Final Project Due at Final Exam
Tuesday December 5, 8:00 AM

TEXTBOOK: 12th edition, *Mechanical and Electrical Equipment for Buildings*
REQUIRED.

Course documents will be available on Canvas.

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

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

Prerequisites:

- **A smaller building from a previous design studio, appropriate for cooling calculations and design changes;**
- ECS I and II or its equivalent;
- Proficiency in the mathematics involved in heat gain calculations.

Please do not register for this seminar without these prerequisites!