Architecture 410/510 - 3 credits (open to students from any major; no prereq. Fulfills major elective requirements for Architecture, Interior Architecture)

Architecture 406/606 - 1 credit (advanced technology option for architecture majors; prereq. ARCH 4/570 Building Construction, ARCH 4/591 Environmental Controls Systems)

Schedule: Friday 1 - 3:50pm and an additional 9 – 12 hours of work per week

Class meeting location: Lawrence Hall 279 & the CASL house--1801 Moss St.

Optional: Graded or P/NP

Course Instructors: Jan Fillinger, AIA, LEED AP, Certified Passive House Consultant
Win Swafford, Certified Passive House Consultant

DESCRIPTION
In this course you will compare what you conceive with how you build as you study, design, document and the framing of the CASL House new addition. Students will learn the importance of detailing a high-performance building envelope through in class lectures and discussions. This knowledge base will be translated into a real world application as students design and build both timber-frame and masonry walls. In addition to the technical and physical knowledge gained through this process, you will also develop leadership and management skills by participating in teams, organizing activities and being responsible for a specific aspect of the project.

FORMAT
Students enrolled in the three-credit course will participate in 3 hours/week of work, review and planning in class or at the house with the instructor, and an additional 9 -12 hours/week of on-site problem solving and construction. All students must complete the tool safety training that will be offered on-site during the first week of class. All students will also be required to participate in a weekend framing workshop one Saturday during the term. In addition to completing the work assigned to all students, graduate students will prepare illustrated documentation of the building process which will be presented in the CASL book and website.

Advanced Tech Credit Option: Architecture students who intend to use this course to fulfill their advanced technology elective requirement must register for an additional credit of special studies that will provide a detailed understanding of aspects related to high-performance building construction. These investigations will go beyond the basic learning objectives of the course to present a greater technical comprehension of the design and building process.