

## Week 7: Reading Assignment, Homework Assignment

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**Course Website:** <http://courses.physics.illinois.edu/phys598aem/>

All lecture notes, homework, demos, references, *etc.* are available on the P598AEM website. Please spend some time checking these out!

### **Course Organization:**

**A. Lectures:** Tuesday & Thursday, 12:30-1:50 pm, in 136 Loomis.

**B. Weekly Reading and Homework Assignments:** HW due following Thursday, in class.

**C. Take-Home Midterm Exam:** Oct. 10<sup>th</sup>, due Oct. 17<sup>th</sup> (in lieu of P598AEM HW 7).

**D. Take-Home Final Exam:** Dec. 10<sup>th</sup>, due Dec. 17<sup>th</sup>.

**Reading Assignment For Week 7:** Please read/work through P598AEM Lect. Notes 13-14.  
**Homework Assignment For Week 7:** Take-Home Midterm Exam – please see below.

## Physics 598AEM Week 7 Homework Assignment

This week is the Take-Home Midterm – which as we discussed/agreed upon in class – each of you is to come up with one “good” (*i.e.* ~ “long”) P598AEM-related problem or 3 shorter / simpler P598AEM problems – that are of interest to you, and better still, if they are *e.g.* specific / relevant to your own area(s) of research (and or interest(s)) and then do this/these problems.

Please write these up in a sufficiently detailed manner such that everyone in the class can read, understand and follow through the derivation of the problem. I'd also like each one of you to give a brief, ~ few minute presentation to the class on what you learned doing your own Take-Home MT exam. Your write-up on your Take-Home MT can thus be used for class presentation. I'd also like to post them on our P598AEM HW webpage, for future students taking this class...