I have to be out of town next Thursday, so I would like to schedule class for next Wed., Oct. 8, at 3:00.

By the end of this week, we will have covered sections 2.1-2.3 of Peskin and Schroeder; we will finish the chapter next Tuesday. If it is not familiar to you, please also review the Heisenberg and Interaction Picture formulations of Quantum Mechanics. See, for example, 492-500 of Shankar.

1. Fill in the details of the derivation of the effective Hamiltonian for an electron in a background electromagnetic field. Check that you get the correct $g$ value for the magnetic moment, and that you find the correct spin-orbit coupling in the field of an atomic nucleus.

2. Peskin 2.1.

3. Peskin 2.2.