**http://www.physics.ucdavis.edu/~savrasov/Projects/index\_teaching.htm**

**PHYSICS 250-06: ADVANCED ELECTRONIC STRUCTURE**

### 1. Theoretical Background.

### 2. Density Functional Theory.

### 3. Pseudopotentials.

### 4. Local-orbital methods.

### 5. Moving the atoms: Molecular Dynamics. Frozen Phonons, Linear Response

### 6. Superconductivity and Transport.

### 7. Time Dependent DFT, Magnons, Optics.

### 8. Electronic Structure of Correlated Systems.