BME 207: Sep 27+29 2011: Protein-Protein Interactions

Familiarize yourself with the web page + short paper:
www.bisc.soe.ucsc.edu
Juettemann & Gerloff, NAR 2011

+ brush up on basic protein structure knowledge if necessary
(any biology or biochemistry text book will do)

Introductory Review Articles:
Williamson & Sutcliffe, Biochem Soc Trans 2010
Noreen & Thornton, EMBO J 2003

Some of the reasons why we care:

A bit more advanced / food for thought:
Schreiber & Keating, Curr Opin Struct Biol 2011
Wright et al, Biochem Soc Trans 2011

(some underappreciated) methods:
Madaouï & Guerois, PNAS 2008
Gabdoulline et al, NAR 2003

Not-required (biophysical background on electrostatic at interfaces):
McCoy et al., JMB 1997

BME 207: Oct 11+13: (more/other) molecular recognition & interactions

Background (sorry I forgot to look up where/whether the book is available in our building; S&E library has one copy; QP551.L4636 2004):
AM Lesk (Intro to Protein Science - architecture, function and genomics), pp 227-43

Sidelines: interesting articles on specific topics outside the scope of the class
Tsonis & Dwivedi, BBA 2008 (molecular mimicry)
Gamsjaeger et al, TiBS 2007 (another example similar to Myb/SANT:
some zinc fingers recognize proteins, not DNA; btw some recognize RNA)
Shazman et al, NAR 2011 (soon able to distinguish RNA from ssDNA binding computationally?)