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Fall 2019

### Biophysics in Applications

Marilyn R. Gunner  
*CUNY City College*

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**BIOPHYSICS 423 Syllabus Fall 2019 (draft)**

Marshak 418; 5-6:15 Tues &amp; Thurs

[gunner@sci.cuny.cuny.edu](mailto:gunner@sci.cuny.cuny.edu)
<http://www.sci.cuny.cuny.edu/~gunner/Pages-422/index.html>

Homework due

t	8/27/19	First Class	
th	8/29/19	bioenergetics overview; Protein visualization	
t	9/3/19	Amino acid properties	1. Intro
th	9/5/19	Monday Schedule	
t	9/10/19	protein motifs	
th	9/12/19	membrane vs soluble proteins	2. amino acids
t	9/17/19	thermo 1	3. our proteins
th	9/19/19	thermo 2	4. motifs & folds and families
t	9/24/19	talks-your protein structure	
th	9/26/19	pK & stat mech	Thermo homework
t	10/1/19	No Class	
th	10/3/19	Hydrogen bonds; Lennard-Jones	
t	10/8/19	No Class	
th	10/10/19	ion solvation	
t	10/15/18	hydrophobicity	pK and Em
th	10/17/19	sums of small forces	
t	10/22/19	calculation	hbds and ion solvation
th	10/24/19	Guest Lec: nerve transmission	
t	10/29/19	talk- your protein function	hydrophobicity&small forces
th	11/31/201	guest: Mike Hickerson on genomics	
t	11/5/19	electron tunneling	
th	11/8/19	Guest Lec: de novo design	
t	11/10/19	electron tunneling	e tunneling
th	11/14/19	measurements overview	
t	11/19/19	membrane protein assembly and organization	
th	11/21/19	Protein folding - is the problem solved?	
t	11/26/19	Guest Lec: finding protein structures	
th	11/28/19		
t	12/3/19	class talks	paper for Dec 11 and Dec 6 talks
th	12/5/19	class talks	
t	12/10/19	class talks	papers for Nov 29 and Dec 4 talks
	12/12/19	class talks	