

BIOL4520: Molecular Biophysics (Fall, 2017, CRN82101)

1. Course Information

- x Course name, number, and section Molecular Biophysics BIOL4520 A
- x Hours of credit 3
- x Prerequisites or corequisites as listed in university catalog Prerequisite MATH 226, BIOL 1107K, BIOL 1108, BIOL 320, BIOL 325, CHEM 121, CHEM 121, and either PHYS 1111 or PHYS 221, or consent of the instructor.
- x Classroom location and room number MW 03:30 pm-04:45 pm BC 2022

2. Instructor Information

- x Instructor name: Dr. Jonghoon Kang
- x Instructor contact: ☎ 217, 229-333-7140, jkang@valdosta.edu
- x Instructor office hours M & W 2:00 pm - 3:00 pm (You may discuss course or career-related issues)

3. Course Description

- x Course description as printed in university catalog Introduction to thermodynamics, kinetics and their applications to biological systems.
- x Required texts, resources, and materials:
 - 9 A Life Scientist's Guide to Physical Chemistry, 1st Edition by Marc R. Roussell from Cambridge University Press (ISBN 13: 978-0521180964)
 - 9 Research articles or other reading assignments will be posted
 - 9 Electronic calculator (not cell phone)

outcomes

3. Demonstrate an understanding of the cellular basis of life

- x Course objectives or outcomes:
 - ¾ Describe basic terminology used in thermodynamics and kinetics
 - ¾ Perform basic mathematical manipulations of thermodynamic and kinetic equations
 - ¾ Interpret biochemical phenomena in terms of thermodynamics and kinetics
 - ¾ Enhance understanding of current biological literature that contains biophysical concepts covered in this course.
 - ¾ Recognize the importance of physics and chemistry in the biological sciences

5. Assignments

These are the six activities you need to do to obtain an A from this course:

- ¾ Attending class
- ¾ Taking note of whatever I write on the board
- ¾ Reading and studying your notebooks and textbook
- ¾ Working on the exercise problems in the textbook
- ¾ Reading any additional assignments (papers)
- ¾ Taking time to think or imagine what you have learned in class

6. Policy

x Explanation of how much each assignment contributes to the overall grade for the class:

Total Score 400 (In Class Exam) 200 (Final) = 600

There may be opportunities of extra credits in class

x Explanation of how grades are assigned:

Total score (%)	Grade
$\geq 90\%$	A
$\geq 80\%$	B
$\geq 70\%$	C
$\geq 60\%$	D
$< 60\%$	F

Attendance and tardiness: Any absence policy should conform to the university policy.

University Attendance Policy from the VSU catalogue:

The University expects that all students shall regularly attend all scheduled class meetings held for instruction or examination. When students are to be absent from class, they should immediately contact the instructor. A student who misses more than 20% of the scheduled classes of a course will be subject to receive a failing grade in the course.

In the event that a student misses class with an excuse, s/he should email the instructor within 24 hours of the missed class. Excused absences are usually given for medical emergencies and documentation must be provided.

7. Schedule of Activities or Assignments, including university-scheduled final exam time (schedule is tentative and may be subject to change)

Date	Chapter	Class	Date	Chapter	Class
8/14	App. D 4	The SI System of Units Thermodynamic Preliminaries	10/11	11	

8. Classroom Policies

x Accommodations Statement:

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disability must contact the Access Office for Students with Disabilities located in Farber Hall
The phone numbers are 245