

## **COURSE SYLLABUS**

Physics 5300-003, Spring 2008, 1:00-1:50 p.m. MWF, Science Building, Room 112

**Instructor:** Dr. K. Kelvin Cheng, Professor of Physics

**Office Hours:** M-F 8:30-9:30 a.m., Science Bldg. Room 109, by appointment Tel. 742-2992, e-mail: kelvin.cheng@ttu.edu

**Textbook:** "Biological Physics" Updated 1<sup>st</sup> Edition, by Philip Nelson (W.H. Freeman and Company)

### **Grades**

Homework 30%, Attendance and Quizzes 20%, Final Examination (5-page paper and 40-min presentation) 50%.

Grade Scale            100-A-86-B-72-C-58-D-44-F-0

**Attendance is required** and absences must be excused by e-mail or in person. Policy: -1% off the course total for each unexcused absence as noted.

**Withdrawal policy:** Automatic "W" by the posted withdrawal deadline, otherwise a letter grade.

**Important:** Spend **10 hours** or more outside of class each week on lectures, your notes and homework. (Laboratory is extra.) Review the new material in the textbook before each class.

### **Disability**

Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements, should contact the instructor as soon as possible so that necessary accommodations can be made. Proper documentation about the disability must be presented from the Dean of Student's office.

**Academic honesty** is assumed and violations will be pursued.

### **Course objectives and expected learning outcomes:**

Know the fundamental principles of "structures", "dynamics" and "functions" of different biological molecules and their assemblies at the molecular level.

Use these principles in other your research and everyday life.

Apply the knowledge of biophysics in public affairs and help improve higher education in the U.S.

### **Methods for assessing the expected learning outcomes:**

1. Examinations and grades.
2. In-class responses by students.
3. Class discussions for assessing the assimilation of knowledge.
4. Feedback from students after graduation about the usefulness of biophysics.