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2. Instructor Information

x Instructor name: Dr. Jonghoon Kang

x Instructor contact: **B** 2217, 229333-7140, jkang@valdosta.edu

- x Instructor office hours Thursday 2:00 pm 3:00 pm
- 3. Course Desiption
 - x Course description as printed in university catalogastudy of the role of quantum mechanics in bio9.5 (in)2.3 6ip (D)-5-1. (hin)2.2 (u)2.3 (e)-2.2 (io)36.6 (9.5 (h)2.3 (an)6 (r)-3 (e)-3 (e)-3
- 9 Read your notebook/ppt materials (very important).
- 9 Read the papers
- 9 Complete assignments.
- x Specific Description of Course

The course focuses on how quantum mechapilasys a role in biological and biochemical phenomena. Basic concepts in quantum aspects of nature will be reviewed and their implications in biology will be examined. Traditionally biologists don't the details indicated mathematics, and physics elevant to this course. The use of mathematics will be minimized to the level of precalculus as this course is mainly targeted for biology students

4. Standards, Goals, Objectives, or Outcomes

x outcomes:

Thedepartmentaleducational outcomes (listed in the university catalogue)

- 1. Develop and test hypotheses, collect and analyze data, and present the results and conclusions in both written and oral formats used in pereviewed journals and at scientific meetings.
- 3. Demonstratæn understanding of the cellular basis of life.
- 4. Relate the structure and the function of DNA/RNA to the development of form and function of the organism and to heredity.

Specific Outcomes

3/4 Comprehend basic (quantum) physics

3/4

7. Schedule of Activities or Assignments, including universityeduled final exam time (all schedule is tentative and may be subject to change)			
	Date	Topic	
	8/		

10/22 Quantum Biology of Reactive Oxygen Species (paper)

- Cell phones are not allowed to be used in class.
- Email: Please email me only from a VSU email accommt.ulnable to respond to emails from now6U accounts.

-Academic integrity is the responsibility of all VSU faculty and students. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and the syllabus. All students are expected to do their own work and to uphold a high standard of academic ethics. Cheating (including plagiarism) will not be tolerated. The instructor reserves the right to dismiss you from the course without credit if your caught cheating. You will be respectful of your instructor and your fellow students at all times, or you will be dismissed from the class and potentially the course.

- No arguments on final grade. You can check any mistake in the calculation of your grade but no any other arguments.

9. Additional Information (at instructor's discretion)

- Strategies used to support learning: Students should take advantage of my office hours. Studying as a group (study group) should be a good idea. However, you have to complete all assignments yourself. If cheatings are found in your works students involved will get a zero point in those assignments.
- I will teach you and you will lear a fascinating science, quantum biology. Therefore, your intellectual enhancement from taking this course will depend on both of us.