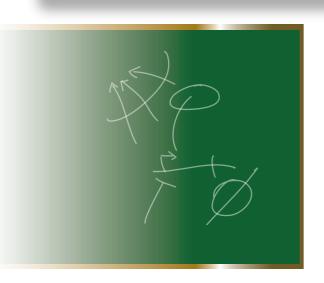


**Instructor:** Dr. Renaud Geslain **Office:** Room 146, SSM building

Tel: (843)-953-8080

email: geslainr@cofc.edu



#### Lectures

Monday and Wednesday 2:30 - 3:45pm

# Office hours

Thursday 1:30 - 2:30pm or by appointment I am always happy to help!

### Required textbook



## Biological Science.

By Quillin and Allison.

Freeman.

The text is also available as an ebook.

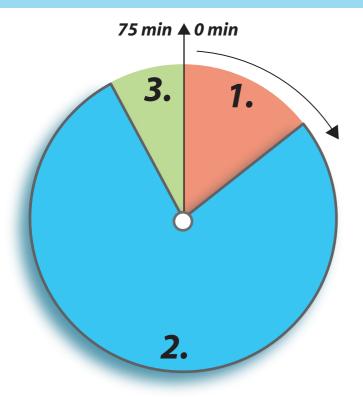
Thank you for choosing this class of introduction to cell and molecular biology.

#### **Learning outcomes:**

Upon completion of this course you will be able to:

- o identify the biomolecules and organelles of the cell and understand their functions.
- explain the convertion, storage and use of energy in the processes of photosynthesis, cellular respiration, and fermentation.
- describe the phases of the cell cycle, especially mitosis and meiosis.
- understand the function and molecular mechanisms of DNA replication, RNA transcription, and protein translation

#### Structure of the lectures:



- 1. Molec and cell bio in the news mini debate followed by a summary of the previous lecture
- 2. lecture
- 3. summary of the current lecture

#### **Academic conduct:**

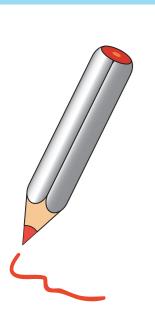


This course adheres to the Academic Integrity Policy at the College of Charleston. Punctuality is essential. Respect for the instructor and for your fellow classmates is expected. Violation of the academic honor code may result in an XF in the course.

#### **Attendance:**

Lecture attendance is strongly encouraged. Complete the assigned reading before coming to class. There will be material covered that is not in your textbook and you will be tested on it. Lecture slides and summaries will be posted on OAKS.

#### **Course evaluation:**



Exam#1 100 pts
Exam#2 100 pts
Exam#2 Final 100 pts

Exam#3-Final 100 pts

Quiz#1 20 pts

Quiz#2 20 pts

Quiz#3 20 pts

Art exhibition 10 pts

Exams and Quizzes: there will be 3 exams (2 midterms + 1 cumulative final exam) and 3 in class quizzes during the semester. If you have a legitimate excuse to miss an exam or quiz please see me ahead of time. Missing an exam or quiz whithout an acceptable excuse will result in a grade of zero.

# F 9% B 80 89 80 79 C 77 76 C 774 733 D 69 79 60 60 60 79

**Grading scale:** 

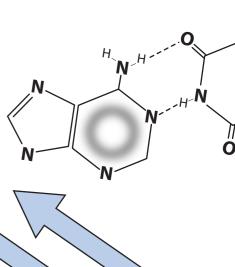
# Tips for success in this course:



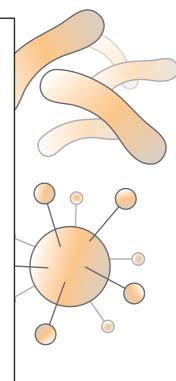
- Check OAKS on a regular basis, this is were I post my lecture slides as well as all important information.
- *Read* the assigned readings.
- O Don't be afraid to *ask questions*. I welcome questions before, during, and after class.
- As we progress through the course, try to build on the information presented in the previous lectures. This will help you to build "the big picture" of the key concepts and scientific principles that are used in cell and molecular biology.

# Lecture schedule

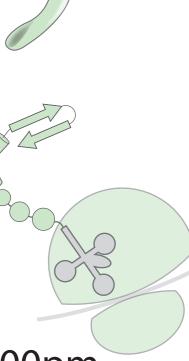
Water	11-Jan	2
Proteins	18-Jan	3
Proteins	23-Jan	3
Nucleic acids	25-Jan	4
Nucleic acids	30-Jan	4
Carbohydrates	1-Feb	5
Lipids	6-Feb	6
Review + Quiz#1	8-Feb	
Exam#1	13-Feb	2-6



Cell structures	15-Feb	7
Cell structures	20-Feb	7
Enzymes	22-Feb	8
Cellular respiration—	27-Feb	9
Photosynthesis	1-Mar	10
Photosynthesis —	13-Mar	10
Cell cycle —	15-Mar	12
Review + Quiz#2	20-Mar	
Exam#2	22-Mar	7-12



Cancer	27-Mar	12
Meiosis	29-Mar	13
DNA replication	3-Apr	15
Central Dogma	5-Apr	16
Transcription	10-Apr	17
Translation ————————————————————————————————————	12-Apr	17
PCR and DNA forensic	17-Apr	18
Molec and Cell art exhibition	19-Apr	
Review	24-Apr	
Quiz#3	26-Apr	12-18



#### **Important dates:**

Last day to drop/add

Midterm grades available

Last day to withdraw with a "W"

Mar 23

#### **Center for Student Learning:**

I encourage you to utilize the Center for Student Learning's (CSL) academic support services for assistance in study strategies, speaking & writing strategies, and course content. They offer tutoring, Supplemental Instruction, study strategy appointments, and workshops. Students of all abilities have become more successful using these programs throughout their academic career and the services are available to you at no additional cost. For more information regarding these services please visit the CSL website at http://csl.cofc.edu or call (843)953-5635.

#### **Center for Disability Services:**

(http://disabilityservices.cofc.edu/for-faculty/faqs.php)

- Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged.
- The College will make reasonable accommodations for persons with documented disabilities. Students should apply for services at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me one week before accommodation is needed.
- This College abides by section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. If you have a documented disability that may have some impact on your work in this class and for which you may require accommodations, please see an administrator at the Center of Disability Services/SNAP, 843.953.1431 or me so that such accommodation may be arranged.

# College of Charleston Honor Code and Academic Integrity:

Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved.

Incidents where the instructor determines the student's actions are related more to a misunderstanding will handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed both by the instructor and the student, will be forwarded to the Dean of Students and placed in the student's file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student's transcript for two years after which the student may petition for the XX to be expunged. The F is permanent. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board.

Students should be aware that unauthorized collaboration--working together without permission-- is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others' exams, fabricating data, and giving unauthorized assistance. Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor. Students can find the complete Honor Code and all related processes in the Student Handbook at:

http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php