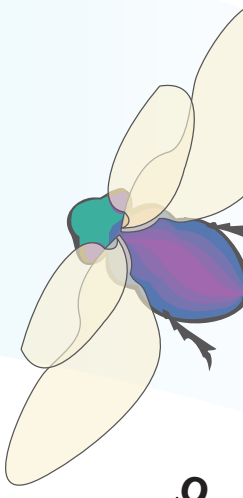
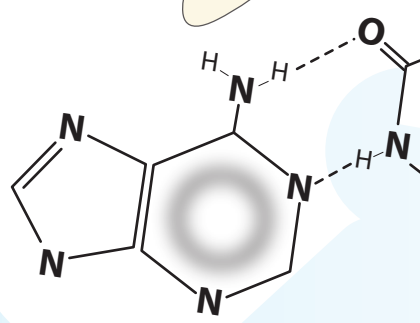
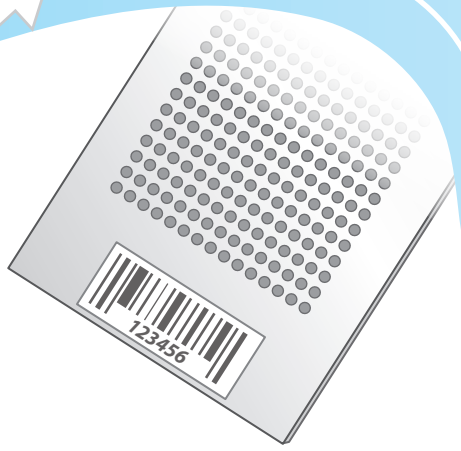
Biol111-Spring19

Introduction to Cell and Molecular Biology







Instructor: Dr. Renaud Geslain
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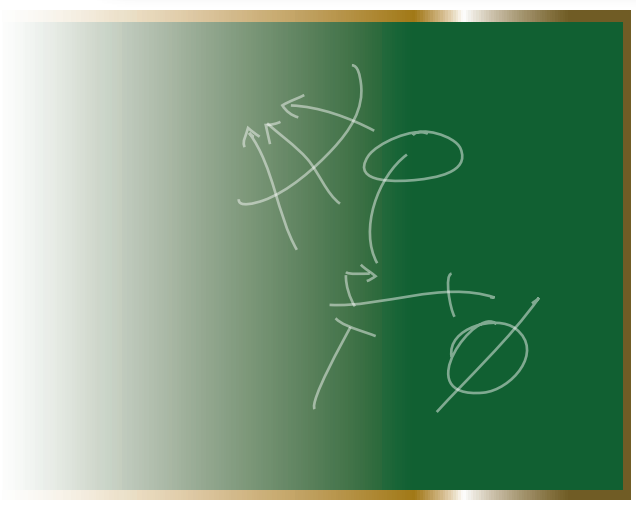
Tel: (843)-953-8080
email: geslainr@cofc.edu



Lectures

Monday and Wednesday
12:15 - 1:30 pm
Rita 103

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.

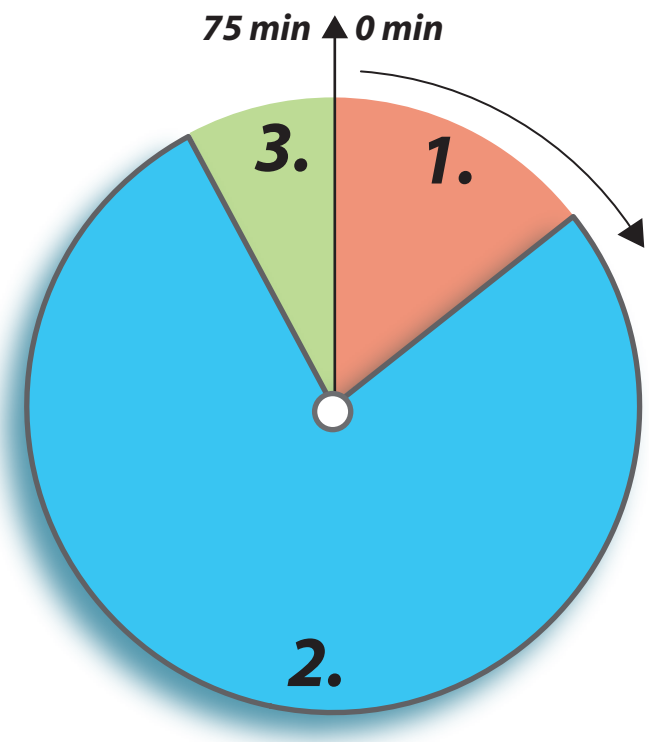
Thank you for choosing this class of introduction to cell and molecular biology.

Learning outcomes:

Upon completion of this course you will be able to:

- 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 + worksheet

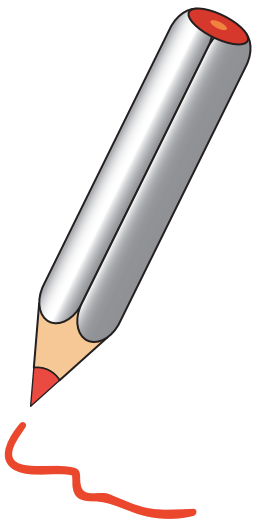
Academic conduct:

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.

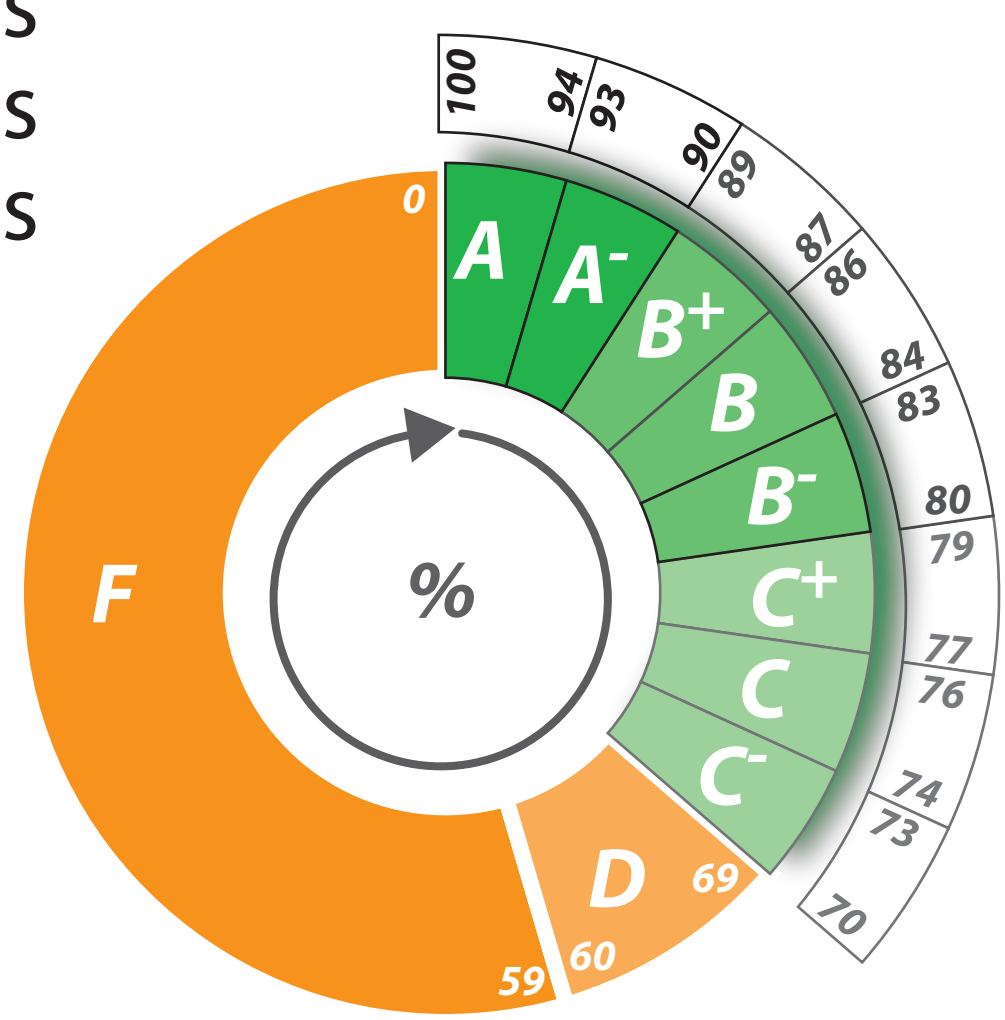
Course evaluation:



Exam#1	100 pts
Exam#2	100 pts
Exam#3-Final	100 pts
Quiz#1	20 pts
Quiz#2	20 pts
Quiz#3	20 pts
Extra credits	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.

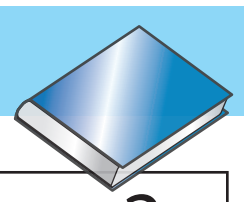
Grading scale:



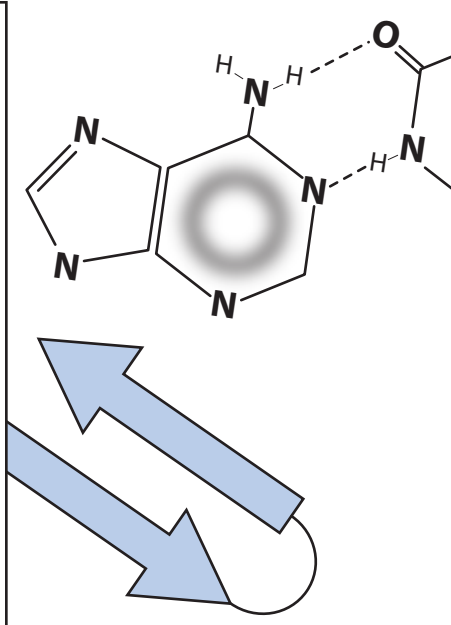
Tips for success in this course:

- Check ***OAKS*** on a regular basis, this is were I post my lecture slides as well as all important information.
- ***Read*** the assigned readings.
- 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.

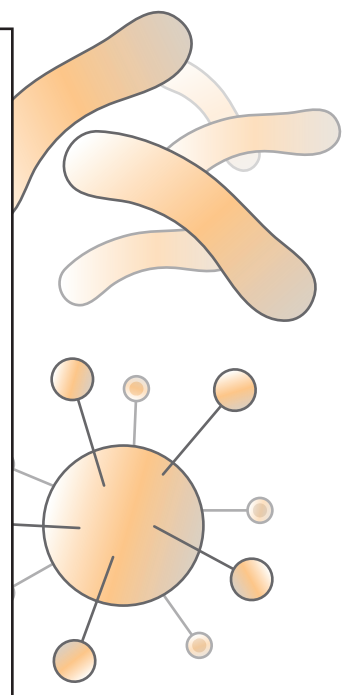
Lecture schedule



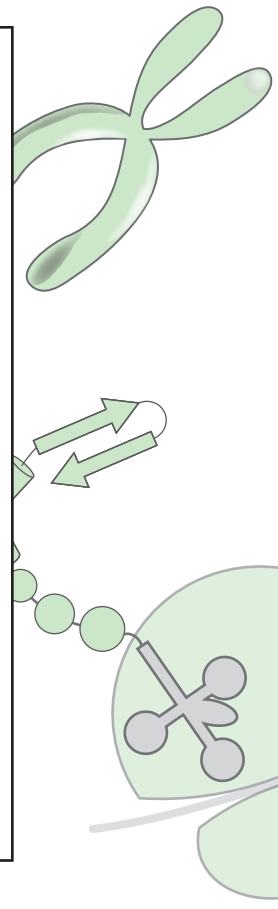
Water	Jan 08	2
Proteins	Jan 10	3
Proteins	Jan 15	3
Nucleic acids	Jan 17	4
Nucleic acids	Jan 22	4
Carbohydrates	Jan 24	5
Lipids	Jan 29	6
Review + ***Quiz#1***	Jan 31	
Exam#1	Feb 05	2-6



Cell structures	Feb 07	7
Cell structures	Feb 12	7
Enzymes	Feb 14	8
Cellular respiration	Feb 19	9
Photosynthesis	Feb 21	10
Photosynthesis	Feb 26	10
Cell cycle	Feb 28	12
Review + ***Quiz#2***	Mar 05	
Exam#2	Mar 07	7-12



Cancer	Mar 12	12
Meiosis	Mar 14	13
DNA replication	Mar 26	15
Central Dogma	Mar 28	16
Transcription	Apr 02	17
Translation	Apr 04	17
PCR and DNA forensic	Apr 09	18
Molec and Cell art exhibition	Apr 11	
Quiz#3	Apr 16	
Exam#3-Final	Apr 18	12-18



Important dates:

Last day to drop/add	January 14
Midterm grades available	March 8
Last day to withdraw with a "W"	April 9

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