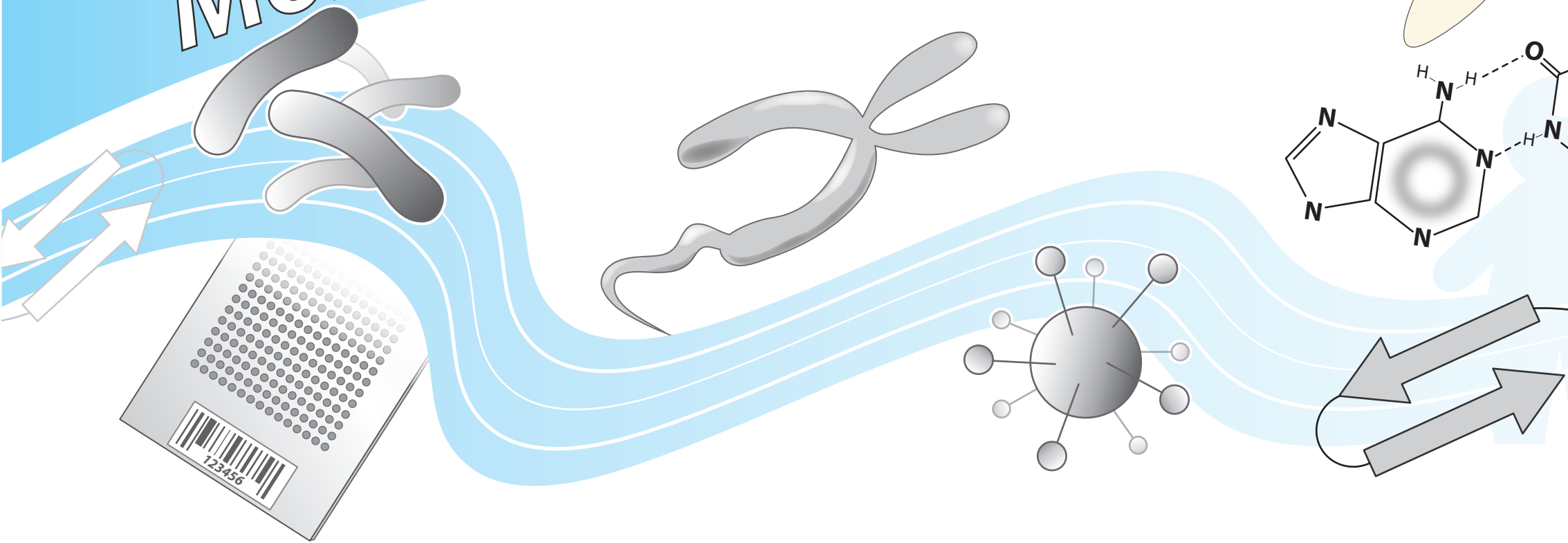


Biol111-Spring16

Introduction to Cell and Molecular Biology



Instructor: Dr. Renaud Geslain
Office: Room 146, SSM building
Tel: (843)-953-8080
email: geslainr@cofc.edu

Lectures

Tuesday and Thursday
10:50am - 12:05pm

Office hours

Tuesday 12:10 - 1:10pm
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.

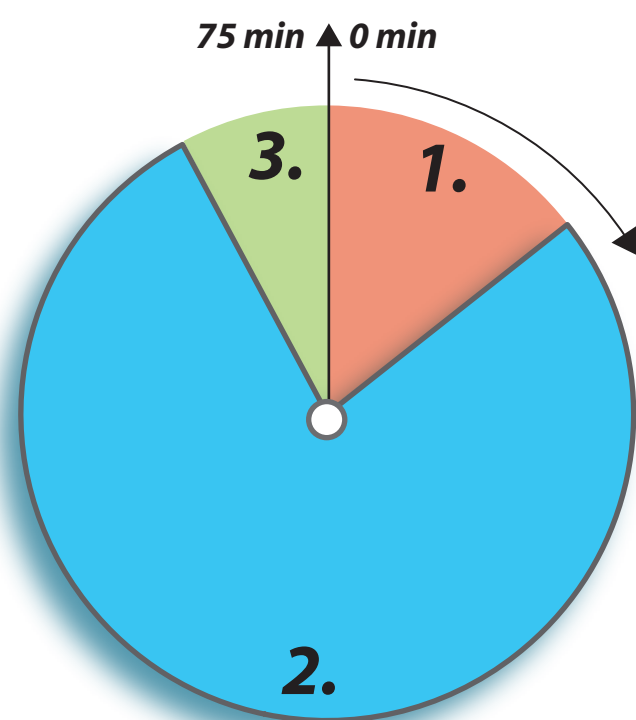
Thank you for choosing this class of introduction to cell and molecular biology.

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 conversion, 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:

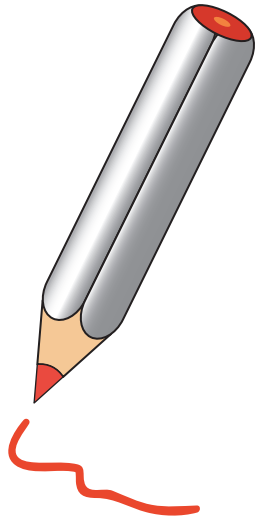


This course adheres to the Academic Integrity Policy at the College of Charleston. Punctuality is essential. Respect for the instructor and for your fellow classmates is expected. Violation of the academic honor code may result in an XF in the course.

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.

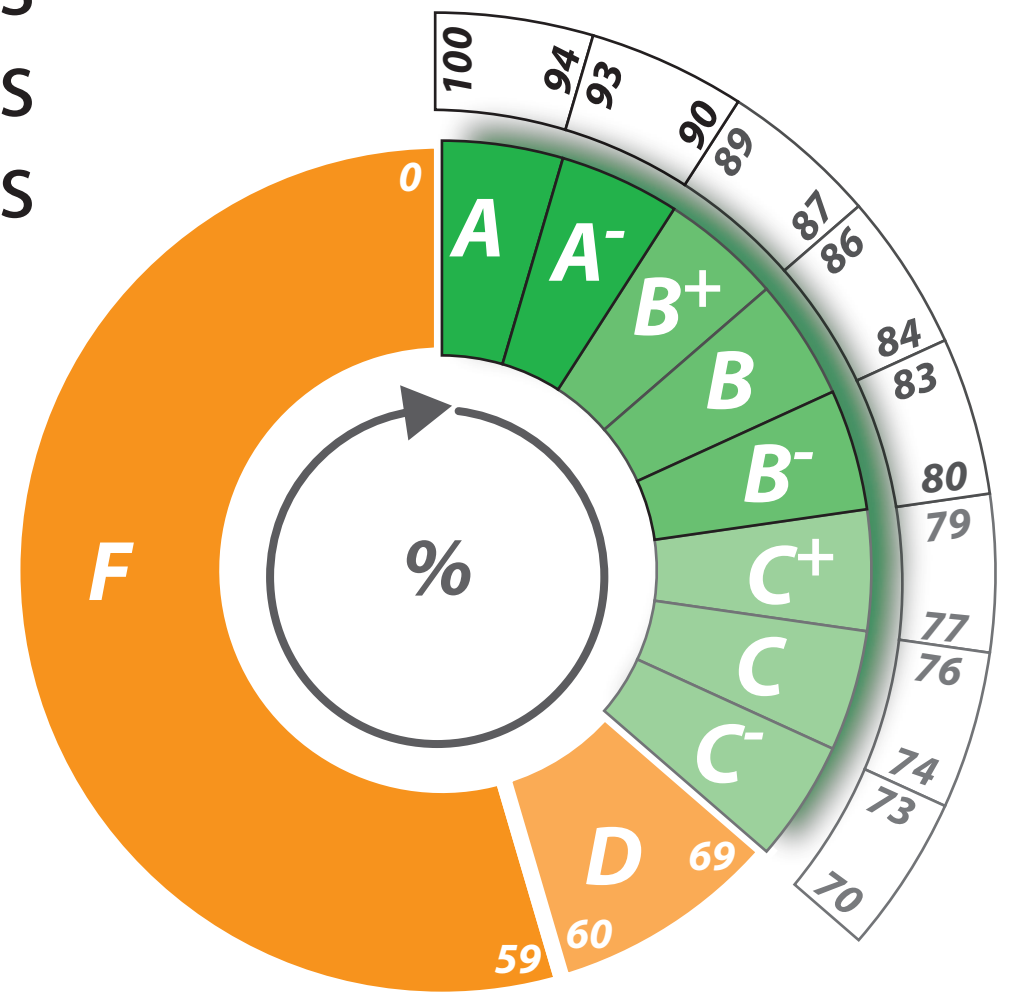
Course evaluation:



Exam#1	100 pts
Exam#2	100 pts
Exam#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 without an acceptable excuse will result in a grade of zero.

Grading scale:

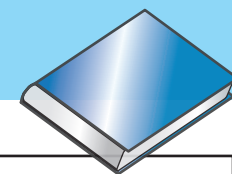


Tips for success in this course:

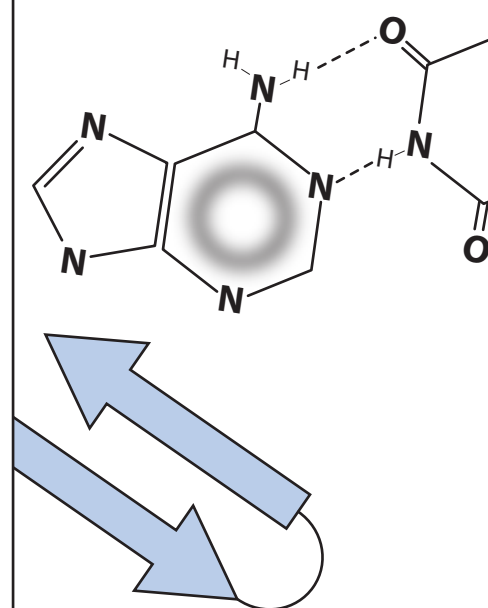


- Check **OAKS** on a regular basis, this is where I post my lecture slides as well as all important information.
- **Read** the assigned readings.
- Don't be afraid to **ask questions**. I welcome questions before, during, and after class.
- As we progress through the course, try to build on the information 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.

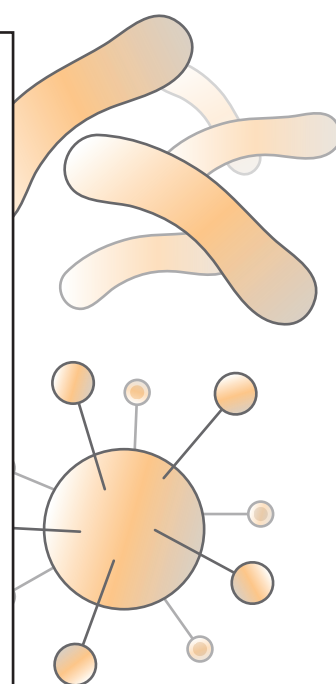
Lecture schedule



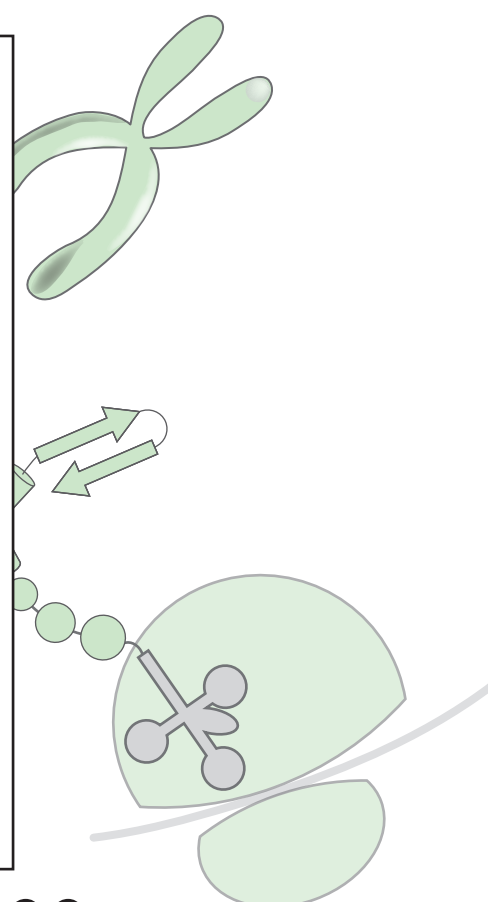
Water	07-Jan	2
Proteins	12-Jan	3
Proteins	14-Jan	3
Nucleic acids	19-Jan	4
Nucleic acids	21-Jan	4
Carbohydrates	26-Jan	5
Lipids	28-Jan	6
Review + Quiz#1	02-Feb	
Exam#1	04-Feb	2-6



Cell structures	09-Feb	7
Cell structures	11-Feb	7
Enzymes	16-Feb	8
Cellular respiration	18-Feb	9
Photosynthesis	23-Feb	10
Photosynthesis	25-Feb	10
Cell cycle	01-Mar	12
Review + Quiz#2	03-Mar	
Exam#2	15-Mar	7-12



Cancer	17-Mar	12
Meiosis	22-Mar	13
DNA replication	24-Mar	15
Central Dogma	29-Mar	16
Transcription	31-Mar	17
Translation	05-Apr	17
PCR and DNA forensic	07-Apr	18
Molec and Cell art exhibition	11-Apr	
Review	14-Apr	
Quiz#3	19-Apr	12-18



Exam#3-Final

28 -Apr 9:00-11:00 am

Supplemental review sessions:

Supplemental Instructions leaders are upperclassmen who have excelled in biology and who run active/hands-on group study sessions. This is a great resource for you if you need extra help with the material.

Special needs:

Any student eligible for needing academic adjustments or accommodations through the SNAP program because of a documented disability needs to speak with me immediately so that we can address these needs.

Important dates:

Last day to drop/add	Jan 13
Midterm grades available	Mar 14
Last day to withdraw with a "W"	Mar 18
Final Exam	Apr 28