

Instructors: Cristiano Dias: 481 Tiernan Hall, [cld@njit.edu](mailto:cld@njit.edu)

Office Hours: Wednesday from 4-5 pm

**PREREQUISITE:**

**COURSE MATERIAL:**

- **Textbook:** *Cell Biology by the numbers*, by Ron Milo, and Rob Philips. Publisher: Garland Science.

**ATTENDANCE:** It is expected that students will attend all lectures. Attendance will be taken at all classes and exams. More than 3 unexcused absences (in total) are excessive. If you have excusable absences contact your instructor or the Dean of First Year Students. If you must withdraw from the course, do it officially through the Registrar. Do not simply stop attending and taking exams: that forces the instructor to assign a course grade of "F".

**GRADING:** Your final letter grade in Phys 204 will be based on a composite score for term's work that includes exams, in-class quizzes, and homework scores.

- 1) **Exams** Two exams will be given during the semester.

In-class quizzes covering the preceding or current work may be given during lectures and/or recitations. Those scores count toward your final course grade. **There are no make-ups for in class activities.** Students missing a quiz will receive a grade of zero for that item. The general policy is that students who miss a common exam will receive a score of zero for that Exam. That score will be included in the calculation of your final grade. Students that miss both exams automatically fail the course. Students who anticipate an absence from a common exam should discuss their situation with their instructor PRIOR TO their absence. In order to be qualified to receive a "make-up" common exam score (a very rare occurrence), the student should present documentation for not being able to take the test as scheduled. As is the standard policy of NJIT, this documentation should be presented to the student's instructor AND to the Dean of Students - (973) 596-3466, Room 255 Campus Center. BOTH the instructor and Dean of Students must concur in permitting a "make-up" common exam. Students who miss common exams that do not present documentation within 7 days of the common exam will receive a score of zero for the common exam.

In the event that the above qualification is met, a separate make-up test for the missed common quiz will not be offered. Instead, the portion of the final exam relevant to the contents of the missed test will be considered for giving a grade for the missed test. The instructor will evaluate the final exam questions from those chapters and normalize this portion of the student's grade for the missed common quiz.

- 2) **Lecture Quizzes** Short quizzes will be given during each lecture period.

- 3) **Homework** Homework assignments will be posted on moodle every two weeks.

**Final Letter Grades:** Here are the weights to be used for calculating the composite score:

- 20% for midterm exam
- 20% for the final exam
- 10% for the total of homework
- 10% for the all in-class quizzes/participation
- 20% project
- 20% assignment

The cutoff percentages for various letter grades will be:

Percentage	Letter Grade
> 85%	A
85 - 80	B+
80 - 70	B
70 - 65	C+
65 - 55	C
55 - 50	D
< 50	F

Final grades are not negotiable: A score of 84.999999% is a B+, not an A.

**HONOR CODE STATEMENT:** NJIT has a zero-tolerance policy for cheating of any kind and for student behavior that disrupts learning by others. Violations will be reported to the Dean of Students. The penalties range from a minimum of failure in the course plus disciplinary probation up to expulsion from NJIT. Avoid situations where your own behavior could be misinterpreted as dishonorable. **Students are required to agree to the NJIT Honor Code on each exam, assignment, quiz, etc. for the course.**

Turn off all cellular phones, wireless devices, computers, and messaging devices of all kinds during classes and exams. Please do not eat, drink, or create noise in class that interferes with the work of other students or instructors. Creating noise or otherwise interfering with the work of the class will not be tolerated.

IF YOU NEED ACCOMMODATIONS due to a disability please contact Chantonette Lyles, Associate Director of Disability Support Services, Fenster Hall Room 260 to discuss your specific needs. A Letter of Accommodation Eligibility from the Disability Support Services office authorizing your accommodations will be required.

### Syllabus

TOPIC	TEXT STUDIES
Week 1 Fermi problems and scaling	xxiii
Week 2 Biology of the cell (introduction)	Class notes
Week 3 Biochemistry (introduction)	Class notes
Week 4 Size and geometry	Chapt. 1 and 2
Week 5 Size and geometry	Chapt. 1 and 2
Week 6 Assignment + Exam	
Week 7 Class project	
Week 8 Class project	
Week 9 Class project	
Week 10 Rates and durations	Chapt. 4
Week 11 Rates and durations	Chapt. 4
Week 12 Information and Errors	Chapt. 5
Week 13 Assignment + Exam	