

# ANALYSIS OF SCIENTIFIC LITERATURE - Spring 2018

## COURSE

Genetics : Analysis of Scientific Literature (01:447:216)  
Lecture on Mon & Thurs noon – 1:20pm in ARC-110

## INSTRUCTOR

**Doreen Glodowski, Ph.D.**

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office hours: Tues 1 - 2pm or by appointment

## REQUIRED COURSE MATERIALS

- A bound notebook is needed to keep homework assignments together and in order.
- A 3-ring binder is recommended to keep the notebook, class notes, a copy of each paper and other materials together.

\*\*There is no textbook required for this course. All assigned papers will be posted on the sakai site.

## WEBSITE

<https://sakai.rutgers.edu/portal>

## LEARNING GOALS

This course is designed to help students gain the skills needed to read and understand primary scientific literature. During the semester, we will read at least four papers from the same research lab, spending time dissecting and discussing each paper in detail.

## ATTENDANCE

Because this is a discussion/analysis course, attendance is essential. Attendance will be taken and students should plan to be at every class. One excused absence (instructor must be notified of reason) will be allowed without penalty. Points will be deducted for subsequent absences.

## EXAMS

There will be two exams (dates are listed on the class schedule below). Students are allowed to use notebooks during exams.

## MAKEUP POLICY

Makeup exams will be given at the discretion of the instructor and only in the event of an extreme and unexpected emergency. If a makeup exam is required, the course instructor must be notified within 12 hours of the scheduled exam period. Makeup exams must be completed within 7 days of the scheduled exam period. Failure to adhere to these policies will result in a grade of 0 for any missed exam.

## NOTEBOOK AND HOMEWORK

Each student must keep a notebook throughout the semester. The notebook must contain all completed homework assignments. All homework questions will be posted on sakai. Notebooks will be collected twice during the semester for grading.

## GRADING

Points earned by participating in class discussion and activities, completing assignments, and exams will be used to calculate final grades as follows:

	<u>Contribution to Final Grade</u>
Class Attendance/Participation	10%
Exam 1	25%
Exam 2	25%
Notebook/Homework	40%

## ACADEMIC INTEGRITY

All students are expected to read the Rutgers University Academic Integrity Policy. For more information, please see:

<http://academicintegrity.rutgers.edu/academic-integrity-at-rutgers>.

All students who violate academic integrity will be reported to the appropriate dean, academic officer, and/or appropriate hearing board for disciplinary action immediately, regardless of the level of offense. Violations include cheating, plagiarism, and helping to facilitate cheating/academic dishonesty. We will advocate for the strongest possible sanctions against students who violate academic integrity, including but not limited to assigning the grade of XF (disciplinary F) for the course, suspension for one or more semesters, and permanent expulsion from the University with a permanent notation of disciplinary expulsion on the student's transcript.

For a quick interactive tutorial on plagiarism, please see:

<http://library.camden.rutgers.edu/EducationalModules/Plagiarism/>

## STUDENT-WELLNESS SERVICES

### Just In Case Web App

<http://codu.co/cee05e>

Access helpful mental health information and resources for yourself or a friend in a mental health crisis on your smartphone or tablet and easily contact CAPS or RUPD.

### Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901/ [www.rhscaps.rutgers.edu/](http://www.rhscaps.rutgers.edu/)

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professional within Rutgers Health services to support students' efforts to succeed at Rutgers University. CAPS offers a variety of services that include: individual therapy, group therapy and workshops, crisis intervention, referral to specialists in the community and consultation and collaboration with campus partners.

### Violence Prevention & Victim Assistance (VPVA)

**(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / [www.vpva.rutgers.edu/](http://www.vpva.rutgers.edu/)**

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling and advocacy for victims of sexual and relationship violence and stalking to students, staff and faculty. To reach staff during office hours when the university is open or to reach an advocate after hours, call 848-932-1181.

### **Disability Services**

**(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / <https://ods.rutgers.edu/>**

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation:

<https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at:

<https://ods.rutgers.edu/students/registration-form>.

### **Scarlet Listeners**

**(732) 247-5555 / <http://www.scarletlisteners.com/>**

Free and confidential peer counseling and referral hotline, providing a comforting and supportive safe space.

## TENTATIVE CLASS SCHEDULE

<u>Date</u>	<u>Topic</u>	<u>Assignment (complete for next class)</u>
1/18	Intro to course	Read P1 (Intro only); HW1
PAPER 1		
1/22	Discuss background on methods; Intro	Read P1 (Methods & Results); HW2
1/25	Materials & Methods; Results	HW3
1/29	Materials & Methods; Results	HW4
2/1	Materials & Methods; Results	Read P1 (Discussion); HW5
2/5	Discussion	HW6
2/8	Discussion	
2/12	Next experiments	Read P2 (Intro only); HW1
PAPER 2		
2/15	Introduction	Read P2 (Methods & Results); HW2
2/19	Materials & Methods; Results	HW3
2/22	Materials & Methods; Results	HW4
2/26	Materials & Methods; Results	Read P2 (Discussion); HW5
3/1	Discussion	HW6
3/5	Next experiments	Read P3 (Intro only); HW1
<b>3/8</b>	<b>EXAM 1</b>	

\*\*\*\*\**Spring Break 3/12 – 3/16*\*\*\*\*\*

PAPER 3		
3/19	Introduction	Read P3 (Methods & Results); HW2
3/22	Materials & Methods; Results	HW3
3/26	Materials & Methods; Results	HW4
3/29	Materials & Methods; Results	Read P3 (Discussion); HW5
4/2	Discussion	HW6
4/5	Next experiments	Read P4 (Intro only); HW1

PAPER 4		
4/9	Introduction	Read P4 (Methods & Results); HW2
4/12	Materials & Methods; Results	HW3
4/16	Materials & Methods; Results	HW4
4/19	Materials & Methods; Results	Read P4 (Discussion); HW5
4/23	Discussion	HW6
4/26	Next experiments	
4/30	Guest speaker	

### **EXAM 2 (FINAL EXAM) THURS MAY 3 at 8am – 11am**

*Notes: P=Paper; HW=homework; Homework questions will be posted on sakai in a folder labeled "homework" under resources; Papers will be posted on sakai in a folder labeled "papers" under resources; Assignments are listed on the day assigned & should be completed as preparation for the next class period*